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SINGLE REDUCTION SERIES REDUCER NO. 1

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTWR HP/1800 RPM D/P TORQ	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
5	1725 rpm INPUT	1800	153	0.87	1.06	144	0.82	1.00	1	153	0.87	1.06	1
		1200	183	0.70	0.86	173	0.66	0.81		183	0.70	0.86	
		900	201	0.57	0.71	189	0.54	0.67		201	0.57	0.71	
	OUTPUT 345 rpm	600	220	0.42	0.53	207	0.40	0.50	144	220	0.42	0.53	144
		300	241	0.23	0.30	227	0.22	0.29		241	0.23	0.30	
		100	256	0.08	0.12	241	0.08	0.12		256	0.08	0.12	
7-1/2	1725 rpm INPUT	1800	186	0.71	0.89	175	0.67	0.84	3/4	186	0.71	0.89	3/4
		1200	215	0.55	0.70	202	0.51	0.66		215	0.55	0.70	
		900	231	0.44	0.57	217	0.41	0.54		231	0.44	0.57	
	OUTPUT 230 rpm	600	248	0.32	0.42	233	0.30	0.39	153	248	0.32	0.42	153
		300	267	0.17	0.24	250	0.16	0.23		267	0.17	0.24	
		100	280	0.06	0.09	263	0.06	0.09		280	0.06	0.09	
10	1725 rpm INPUT	1800	184	0.53	0.72	172	0.49	0.68	1/2	184	0.53	0.72	3/4
		1200	219	0.42	0.59	205	0.39	0.55		219	0.42	0.59	
		900	239	0.34	0.49	223	0.32	0.46		239	0.34	0.49	
	OUTPUT 172.5 rpm	600	261	0.25	0.37	244	0.23	0.34	118	261	0.25	0.37	184
		300	285	0.14	0.22	266	0.13	0.20		285	0.14	0.22	
		100	302	0.05	0.09	282	0.05	0.09		302	0.05	0.09	
15	1725 rpm INPUT	1800	213	0.41	0.59	197	0.38	0.55	1/2	213	0.41	0.59	1/2
		1200	244	0.31	0.46	226	0.29	0.43		244	0.31	0.46	
		900	262	0.25	0.38	243	0.23	0.36		262	0.25	0.38	
	OUTPUT 115 rpm	600	281	0.18	0.28	260	0.17	0.26	173	281	0.18	0.28	173
		300	301	0.10	0.17	279	0.09	0.16		301	0.10	0.17	
		100	315	0.03	0.07	292	0.03	0.07		315	0.03	0.07	
20	1725 rpm INPUT	1800	199	0.29	0.49	183	0.26	0.46	1/3	199	0.29	0.49	1/2
		1200	237	0.23	0.40	217	0.21	0.37		237	0.23	0.40	
		900	259	0.19	0.34	237	0.17	0.31		259	0.19	0.34	
	OUTPUT 86.3 rpm	600	282	0.13	0.26	258	0.12	0.24	120	282	0.13	0.26	199
		300	308	0.07	0.16	282	0.07	0.15		308	0.07	0.16	
		100	326	0.03	0.07	298	0.02	0.07		326	0.03	0.07	
25	1725 rpm INPUT	1800	209	0.24	0.44	190	0.22	0.41	1/3	209	0.24	0.44	1/3
		1200	245	0.19	0.36	223	0.17	0.33		245	0.19	0.36	
		900	266	0.15	0.30	242	0.14	0.28		266	0.15	0.30	
	OUTPUT 69 rpm	600	288	0.11	0.23	262	0.10	0.21	143	288	0.11	0.23	143
		300	312	0.06	0.14	284	0.05	0.13		312	0.06	0.14	
		100	329	0.02	0.06	299	0.02	0.06		329	0.02	0.06	
30	1725 rpm INPUT	1800	219	0.21	0.40	197	0.19	0.37	1/3	219	0.21	0.40	1/3
		1200	251	0.16	0.31	226	0.14	0.29		251	0.16	0.31	
		900	269	0.13	0.26	242	0.12	0.24		269	0.13	0.26	
	OUTPUT 57.5 rpm	600	288	0.09	0.20	259	0.08	0.18	173	288	0.09	0.20	173
		300	309	0.05	0.12	277	0.04	0.11		309	0.05	0.12	
		100	323	0.02	0.05	290	0.02	0.05		323	0.02	0.05	
40	1725 rpm INPUT	1800	198	0.14	0.35	175	0.13	0.32	1/3	198	0.14	0.35	1/3
		1200	215	0.10	0.26	208	0.10	0.26		215	0.10	0.26	
		900	215	0.08	0.21	215	0.08	0.21		215	0.08	0.21	
	OUTPUT 43.1 rpm	600	215	0.05	0.15	215	0.05	0.15	175	215	0.05	0.15	190
		300	215	0.03	0.09	215	0.03	0.09		215	0.03	0.09	
		100	215	0.01	0.05	215	0.01	0.05		215	0.01	0.05	
50	1725 rpm INPUT	1800	152	0.09	0.28	152	0.09	0.28	1/4	152	0.09	0.28	1/4
		1200	152	0.06	0.20	152	0.06	0.20		152	0.06	0.20	
		900	152	0.04	0.16	152	0.04	0.16		152	0.04	0.16	
	OUTPUT 34.5 rpm	600	152	0.03	0.12	152	0.03	0.12	130	152	0.03	0.12	130
		300	152	0.01	0.08	152	0.01	0.08		152	0.01	0.08	
		100	152	0.01	0.04	152	0.01	0.04		152	0.01	0.04	
60	1725 rpm INPUT	1800	187	0.09	0.26	167	0.08	0.24	1/4	187	0.09	0.26	1/4
		1200	187	0.06	0.19	187	0.06	0.19		187	0.06	0.19	
		900	187	0.05	0.15	187	0.05	0.15		187	0.05	0.15	
	OUTPUT 28.8 rpm	600	187	0.03	0.11	187	0.03	0.11	167	187	0.03	0.11	172
		300	187	0.02	0.07	187	0.02	0.07		187	0.02	0.07	
		100	187	0.01	0.04	187	0.01	0.04		187	0.01	0.04	

** Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

* Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 1.333". Maximum NEMA motor frame size: 56C.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
1

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL ††		
146	198	198	172	274	274								1725 rpm INPUT	
146	198	198	172	297	297								5	
146	198	198	172	322	322									
146	198	198	172	368	368									
146	198	198	172	482	482									
146	198	198	172	739	624							OUTPUT 345 rpm		
146	198	198	172	389	389								1725 rpm INPUT	
146	198	198	172	428	428								7-1/2	
146	198	198	172	465	465									
146	198	198	172	531	531									
146	198	198	172	678	624									
146	198	198	172	860	624							OUTPUT 230 rpm		
146	198	198	172	389	389								1725 rpm INPUT	
146	198	198	172	428	428								10	
146	198	198	172	465	465									
146	198	198	172	531	531									
146	198	198	172	678	624									
146	198	198	172	860	624							OUTPUT 172.5 rpm		
146	198	198	172	455	455								1725 rpm INPUT	
146	198	198	172	510	510								15	
146	198	198	172	558	558									
146	198	198	172	639	624									
146	198	198	172	814	624									
146	198	198	172	860	624							OUTPUT 115 rpm		
146	198	198	172	527	527								1725 rpm INPUT	
146	198	198	172	585	585								20	
146	198	198	172	636	624									
146	198	198	172	724	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 86.3 rpm		
146	198	198	172	575	575								1725 rpm INPUT	
146	198	198	172	641	624								25	
146	199	198	172	699	624									
146	198	198	172	795	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 69 rpm		
146	198	198	172	618	618								1725 rpm INPUT	
146	198	198	172	694	624								30	
146	198	198	172	758	624									
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 57.5 rpm		
146	198	198	172	697	624								1725 rpm INPUT	
146	198	198	172	804	624								40	
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 43.1 rpm		
146	198	198	172	793	624								1725 rpm INPUT	
146	198	198	172	860	624								50	
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 34.5 rpm		
146	198	198	172	835	624								1725 rpm INPUT	
146	198	198	172	860	624								60	
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624									
146	198	198	172	860	624							OUTPUT 28.8 rpm		

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

5



SINGLE REDUCTION SERIES REDUCER NO. 2

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★						
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TOUQE	OUTPUT TORQUE In LBS.	OUTPUT HP	INPUT HP				
5	1725 rpm INPUT	1800	277	1.59	1.85	251	1.44	1.68	1-1/2	277	1.59	1.85	1-1/2		
		1200	356	1.36	1.59	322	1.23	1.45			356	1.36		1.59	
		900	403	1.15	1.37	365	1.04	1.24			403	1.15		1.37	
		600	457	0.87	1.05	413	0.79	0.95	222	457	0.87	1.05	222		
		300	517	0.49	0.62	467	0.45	0.57			517	0.49		0.62	
OUTPUT 345 rpm	100	562	0.18	0.24	508	0.16	0.23		562	0.18	0.24				
7-1/2	1725 rpm INPUT	1800	366	1.40	1.64	329	1.26	1.49	1-1/2	366	1.40	1.64	1-1/2		
		1200	440	1.12	1.33	395	1.00	1.20			440	1.12		1.33	
		900	481	0.92	1.10	433	0.82	1.00			481	0.92		1.10	
		600	527	0.67	0.82	474	0.60	0.75	329	527	0.67	0.82	332		
		300	578	0.37	0.47	520	0.33	0.43			578	0.37		0.47	
OUTPUT 230 rpm	100	595	0.13	0.18	552	0.12	0.17	*	595	0.13	0.18				
10	1725 rpm INPUT	1800	394	1.13	1.38	353	1.01	1.25	1	394	1.13	1.38	1		
		1200	471	0.90	1.11	422	0.80	1.01			471	0.90		1.11	
		900	515	0.74	0.93	462	0.66	0.84			515	0.74		0.93	
		600	563	0.54	0.69	505	0.48	0.63	276	563	0.54	0.69	276		
		300	595	0.28	0.39	552	0.26	0.37			595	0.28		0.39	
OUTPUT 172.5 rpm	100	595	0.09	0.14	585	0.09	0.15		595	0.09	0.14				
15	1725 rpm INPUT	1800	421	0.80	1.06	374	0.71	0.96	1	421	0.80	1.06	1		
		1200	502	0.64	0.86	446	0.57	0.77			502	0.64		0.86	
		900	548	0.52	0.72	487	0.46	0.64			548	0.52		0.72	
		600	595	0.38	0.54	532	0.34	0.49	374	595	0.38	0.54	394		
		300	595	0.19	0.29	580	0.18	0.29			595	0.19		0.29	
OUTPUT 115 rpm	100	595	0.06	0.11	595	0.06	0.12	*	595	0.06	0.11				
20	1725 rpm INPUT	1800	430	0.62	0.82	380	0.54	0.79	3/4	430	0.62	0.82	3/4		
		1200	512	0.49	0.67	453	0.43	0.64			512	0.49		0.67	
		900	559	0.40	0.56	494	0.35	0.53			559	0.40		0.56	
		600	573	0.27	0.40	539	0.26	0.40	360	573	0.27	0.40	360		
		300	573	0.14	0.22	573	0.14	0.24			573	0.14		0.22	
OUTPUT 86.3 rpm	100	573	0.05	0.08	573	0.05	0.10		573	0.05	0.08				
25	1725 rpm INPUT	1800	434	0.50	0.76	378	0.43	0.67	1/2	434	0.50	0.76	3/4		
		1200	516	0.39	0.62	449	0.34	0.55			516	0.39		0.62	
		900	563	0.32	0.52	490	0.28	0.46			563	0.32		0.52	
		600	614	0.23	0.39	534	0.20	0.35	261	614	0.23	0.39	429		
		300	621	0.12	0.22	583	0.11	0.21			621	0.12		0.22	
OUTPUT 69 rpm	100	621	0.04	0.09	618	0.04	0.10		621	0.04	0.09				
30	1725 rpm INPUT	1800	434	0.41	0.67	375	0.36	0.60	1/2	434	0.41	0.67	1/2		
		1200	516	0.33	0.55	446	0.28	0.49			516	0.33		0.55	
		900	563	0.27	0.46	486	0.23	0.41			563	0.27		0.46	
		600	595	0.19	0.35	530	0.17	0.31	300	595	0.19	0.35	300		
		300	595	0.09	0.19	578	0.09	0.19			595	0.09		0.19	
OUTPUT 57.5 rpm	100	595	0.03	0.08	595	0.03	0.09		595	0.03	0.08				
40	1725 rpm INPUT	1800	429	0.31	0.51	363	0.26	0.49	1/2	429	0.31	0.51	1/2		
		1200	510	0.24	0.42	431	0.21	0.41			510	0.24		0.42	
		900	573	0.20	0.40	470	0.17	0.34			573	0.20		0.40	
		600	573	0.14	0.29	513	0.12	0.26	363	573	0.14	0.29	368		
		300	573	0.07	0.17	559	0.07	0.17			573	0.07		0.17	
OUTPUT 43.1 rpm	100	573	0.02	0.08	573	0.02	0.08	*	573	0.02	0.08				
50	1725 rpm INPUT	1800	398	0.23	0.47	348	0.20	0.42	1/3	398	0.23	0.47	1/2		
		1200	398	0.15	0.34	398	0.15	0.34			398	0.15		0.34	
		900	398	0.11	0.27	398	0.11	0.27			398	0.11		0.27	
		600	398	0.08	0.19	398	0.08	0.19	249	398	0.08	0.19	398		
		300	398	0.04	0.12	398	0.04	0.12			398	0.04		0.12	
OUTPUT 34.5 rpm	100	398	0.01	0.06	398	0.01	0.06		398	0.01	0.06	*			
60	1725 rpm INPUT	1800	400	0.19	0.44	318	0.15	0.37	1/3	400	0.19	0.44	1/2		
		1200	400	0.13	0.32	379	0.12	0.31			400	0.13		0.32	
		900	400	0.10	0.25	400	0.10	0.25			400	0.10		0.25	
		600	400	0.06	0.19	400	0.06	0.19	271	400	0.06	0.19	400		
		300	400	0.03	0.11	400	0.03	0.11			400	0.03		0.11	
OUTPUT 28.8 rpm	100	400	0.01	0.06	400	0.01	0.06		400	0.01	0.06	*			

** Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

* Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 1.750". Maximum NEMA motor frame size: 184C — 145TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
2

*****SHAFT OVERHUNG AND THRUST LOADS** (Includes Fan Cooled and Motorized where applicable)

ALL	CB-CT	CV (VERTICAL SHAFT)					L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
171	286	286	268	523	522								1725 rpm INPUT	
171	286	286	268	564	563								5	
171	286	286	268	606	605									
171	286	286	268	680	678									
171	286	286	268	854	832									
171	286	286	268	883	832							OUTPUT 345 rpm		
171	286	286	268	582	581								1725 rpm INPUT	
171	286	286	268	642	641								7-1/2	
171	286	286	268	697	695									
171	286	286	268	794	792									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 230 rpm		
171	286	286	268	668	667								1725 rpm INPUT	
171	286	286	268	741	740								10	
171	286	286	268	806	804									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 172.5 rpm		
171	286	286	268	797	796								1725 rpm INPUT	
171	286	286	268	883	832								15	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 115 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								20	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 86.3 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								25	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 69 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								30	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 57.5 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								40	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 43.1 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								50	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 34.5 rpm		
171	286	286	268	883	832								1725 rpm INPUT	
171	286	286	268	883	832								60	
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832									
171	286	286	268	883	832							OUTPUT 28.8 rpm		

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

5



SINGLE REDUCTION SERIES REDUCER NO. 3

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
5 (4-2/3) 3 S Only	1725 rpm INPUT	1800	409	2.34	2.66	358	2.05	2.34	2	409	2.34	2.66	3
		1200	512	1.95	2.24	448	1.71	1.97		512	1.95	2.24	
	OUTPUT 345 rpm	900	587	1.68	1.94	514	1.47	1.71	302	587	1.68	1.94	409*
		600	673	1.28	1.51	589	1.12	1.33		673	1.28	1.51	
		300	772	0.74	0.90	676	0.64	0.80		772	0.74	0.90	
		100	846	0.27	0.36	740	0.24	0.32		846	0.27	0.36	
7-1/2	1725 rpm INPUT	1800	519	1.98	2.21	453	1.72	2.00	2	519	1.98	2.21	2
		1200	626	1.59	1.80	546	1.39	1.57		626	1.59	1.80	
	OUTPUT 230 rpm	900	687	1.31	1.50	599	1.14	1.31	453*	687	1.31	1.50	454
		600	754	0.96	1.11	658	0.84	0.97		754	0.96	1.11	
		300	827	0.53	0.63	722	0.46	0.55		827	0.53	0.63	
		100	880	0.19	0.24	768	0.16	0.21		880	0.19	0.24	
10	1725 rpm INPUT	1800	562	1.61	1.90	486	1.39	1.66	1-1/2	562	1.61	1.90	2
		1200	673	1.28	1.54	582	1.11	1.34		673	1.28	1.54	
	OUTPUT 172.5 rpm	900	736	1.05	1.28	637	0.91	1.12	434	736	1.05	1.28	562*
		600	806	0.77	0.96	697	0.66	0.84		806	0.77	0.96	
		300	857	0.41	0.54	763	0.36	0.49		857	0.41	0.54	
		100	857	0.14	0.21	810	0.13	0.20		857	0.14	0.21	
15	1725 rpm INPUT	1800	590	1.12	1.44	507	0.97	1.26	1	590	1.12	1.44	1-1/2
		1200	718	0.91	1.19	618	0.78	1.04		718	0.91	1.19	
	OUTPUT 115 rpm	900	793	0.76	1.00	682	0.65	0.88	392	793	0.76	1.00	590*
		600	857	0.54	0.75	752	0.48	0.67		857	0.54	0.75	
		300	857	0.27	0.41	830	0.26	0.40		857	0.27	0.41	
		100	857	0.09	0.16	857	0.09	0.16		857	0.09	0.16	
20	1725 rpm INPUT	1800	603	0.86	1.18	512	0.73	1.02	1	603	0.86	1.18	1-1/2
		1200	733	0.70	0.98	623	0.59	0.85		733	0.70	0.98	
	OUTPUT 86.3 rpm	900	800	0.57	0.82	688	0.49	0.72	499	800	0.57	0.82	603*
		600	800	0.38	0.58	758	0.36	0.55		800	0.38	0.58	
		300	800	0.19	0.32	800	0.19	0.32		800	0.19	0.32	
		100	800	0.06	0.13	800	0.06	0.13		800	0.06	0.13	
25 (24-1/2)	1725 rpm INPUT	1800	624	0.73	1.02	527	0.61	0.88	3/4	624	0.73	1.02	1
		1200	735	0.57	0.82	620	0.48	0.71		735	0.57	0.82	
	OUTPUT 69 rpm	900	740	0.43	0.64	673	0.39	0.59	435	740	0.43	0.64	609
		600	740	0.29	0.46	730	0.28	0.45		740	0.29	0.46	
		300	740	0.14	0.26	740	0.14	0.26		740	0.14	0.26	
		100	740	0.05	0.11	740	0.05	0.11		740	0.05	0.11	
30	1725 rpm INPUT	1800	622	0.59	0.90	520	0.50	0.77	3/4	622	0.59	0.90	1
		1200	740	0.47	0.73	618	0.39	0.63		740	0.47	0.73	
	OUTPUT 57.5 rpm	900	809	0.38	0.62	674	0.32	0.53	504	809	0.38	0.62	622*
		600	857	0.27	0.46	735	0.23	0.41		857	0.27	0.46	
		300	857	0.14	0.26	802	0.13	0.25		857	0.14	0.26	
		100	857	0.05	0.11	850	0.05	0.11		857	0.05	0.11	
40	1725 rpm INPUT	1800	601	0.43	0.75	492	0.35	0.63	1/2	601	0.43	0.75	3/4
		1200	731	0.35	0.63	597	0.28	0.53		731	0.35	0.63	
	OUTPUT 43.1 rpm	900	800	0.29	0.53	658	0.24	0.45	362	800	0.29	0.53	601*
		600	800	0.19	0.39	726	0.17	0.36		800	0.19	0.39	
		300	800	0.10	0.23	800	0.10	0.23		800	0.10	0.23	
		100	800	0.03	0.10	800	0.03	0.10		800	0.03	0.10	
50	1725 rpm INPUT	1800	596	0.34	0.62	477	0.27	0.52	1/2	596	0.34	0.62	3/4
		1200	693	0.26	0.50	556	0.21	0.42		693	0.26	0.50	
	OUTPUT 34.5 rpm	900	740	0.21	0.41	599	0.17	0.35	456	740	0.21	0.41	596*
		600	740	0.14	0.30	647	0.12	0.27		740	0.14	0.30	
		300	740	0.07	0.18	697	0.07	0.17		740	0.07	0.18	
		100	740	0.02	0.08	734	0.02	0.08		740	0.02	0.08	
60	1725 rpm INPUT	1800	566	0.27	0.55	444	0.21	0.46	1/2	566	0.27	0.55	1/2
		1200	650	0.21	0.44	522	0.17	0.37		650	0.21	0.44	
	OUTPUT 28.8 rpm	900	650	0.16	0.35	567	0.14	0.32	444*	650	0.16	0.35	504
		600	650	0.10	0.26	614	0.10	0.25		650	0.10	0.26	
		300	650	0.05	0.16	650	0.05	0.16		650	0.05	0.16	
		100	650	0.02	0.07	650	0.02	0.07		650	0.02	0.07	

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 2.000". Maximum NEMA motor frame size: 184C — 145TC flange.
Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
3

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
171	428	428	402	492	489					1565	1248	1224	1725 rpm INPUT	
171	428	428	402	524	519					1736	1248	1224	5 (4-2/3) 3 S Only OUTPUT 345 rpm	
171	428	428	402	552	546					1873	1248	1224		
171	428	428	402	614	608					2106	1248	1224		
171	428	428	402	778	771					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	536	531					1714	1248	1224		1725 rpm INPUT
171	428	428	402	580	575					1909	1248	1224	7-1/2 OUTPUT 230 rpm	
171	428	428	402	627	621					2075	1248	1224		
171	428	428	402	715	707					2115	1248	1224		
171	428	428	402	924	916					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	634	629					1925	1248	1224		1725 rpm INPUT
171	428	428	402	695	690					2115	1248	1224	10 OUTPUT 172.5 rpm	
171	428	428	402	754	748					2115	1248	1224		
171	428	428	402	859	852					2115	1248	1224		
171	428	428	402	1112	1105					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	785	780					2115	1248	1224		1725 rpm INPUT
171	428	428	402	864	858					2115	1248	1224	15 OUTPUT 115 rpm	
171	428	428	402	934	928					2115	1248	1224		
171	428	428	402	1065	1058					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	894	889					2115	1248	1224		1725 rpm INPUT
171	428	428	402	987	982					2115	1248	1224	20 OUTPUT 86.3 rpm	
171	428	428	402	1074	1068					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	965	961					2115	1248	1224	1725 rpm INPUT	
171	428	428	402	1076	1071					2115	1248	1224	25 (24-1/2) OUTPUT 69 rpm	
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224	1725 rpm INPUT	
171	428	428	402	1117	1117					2115	1248	1224	30 OUTPUT 57.5 rpm	
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224	1725 rpm INPUT	
171	428	428	402	1117	1117					2115	1248	1224	40 OUTPUT 43.1 rpm	
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224	1725 rpm INPUT	
171	428	428	402	1117	1117					2115	1248	1224	50 OUTPUT 34.5 rpm	
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224	1725 rpm INPUT	
171	428	428	402	1117	1117					2115	1248	1224	60 OUTPUT 28.8 rpm	
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		
171	428	428	402	1117	1117					2115	1248	1224		

***Overhung load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 4.625" from centerline.

5



SINGLE REDUCTION SERIES REDUCER NO. 4

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM D/F TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
5	1725 rpm INPUT	1800	894	5.11	5.62	703	4.02	4.45	5	804	4.59	5.06	5
		1200	1117	4.25	4.72	878	3.34	3.74		1004	3.82	4.25	
		900	1307	3.73	4.17	1028	2.94	3.30	1147	3.35	3.76	793	
		600	1494	2.84	3.23	1202	2.29	2.61	1374	2.62	2.98		
		300	1494	1.42	1.67	1406	1.34	1.58	1494	1.42	1.67		
OUTPUT	345 rpm	100	1494	0.47	0.60	1494	0.47	0.60	*	1494	0.47	0.60	
7-1/2	1725 rpm INPUT	1800	1048	3.99	4.47	819	3.12	3.53	3	942	3.59	4.03	5
		1200	1311	3.33	3.77	1025	2.60	2.97		1179	2.99	3.40	
		900	1503	2.86	3.27	1176	2.24	2.58	1351	2.57	2.95	942	
		600	1723	2.19	2.55	1348	1.71	2.01	1549	1.97	2.30		
		300	1785	1.13	1.37	1545	0.98	1.20	1776	1.13	1.37		
OUTPUT	230 rpm	100	1785	0.38	0.50	1692	0.36	0.48	691	1785	0.38	0.50	*
10	1725 rpm INPUT	1800	1141	3.26	3.71	890	2.54	2.92	3	1026	2.93	3.35	3
		1200	1432	2.73	3.14	1116	2.13	2.47		1287	2.45	2.83	
		900	1475	2.11	2.46	1250	1.79	2.10	1441	2.06	2.41	914	
		600	1475	1.40	1.68	1400	1.33	1.60	1475	1.40	1.68		
		300	1475	0.70	0.89	1475	0.70	0.89	1475	0.70	0.89		
OUTPUT	172.5 rpm	100	1475	0.23	0.33	1475	0.23	0.33	*	1475	0.23	0.33	
15	1725 rpm INPUT	1800	1206	2.30	2.81	932	1.78	2.20	2	1084	2.06	2.54	3
		1200	1507	1.91	2.38	1165	1.48	1.87		1355	1.72	2.15	
		900	1719	1.64	2.07	1329	1.27	1.62	1545	1.47	1.87	1084	
		600	1785	1.13	1.48	1516	0.96	1.27	1762	1.12	1.47		
		300	1785	0.57	0.80	1728	0.55	0.77	1785	0.57	0.80		
OUTPUT	115 rpm	100	1785	0.19	0.31	1785	0.19	0.31	840	1785	0.19	0.31	*
20	1725 rpm INPUT	1800	1261	1.80	2.26	964	1.38	1.76	1-1/2	1134	1.62	2.05	2
		1200	1475	1.40	1.81	1199	1.14	1.49		1411	1.34	1.73	
		900	1475	1.05	1.39	1338	0.96	1.27	1475	1.05	1.39	1134	
		600	1475	0.70	0.97	1475	0.70	0.97	1475	0.70	0.97		
		300	1475	0.35	0.53	1475	0.35	0.53	1475	0.35	0.53		
OUTPUT	86.3 rpm	100	1475	0.12	0.21	1475	0.12	0.21	806	1475	0.12	0.21	
25	1725 rpm INPUT	1800	1290	1.47	1.88	977	1.12	1.46	1-1/2	1160	1.33	1.71	1-1/2
		1200	1380	1.05	1.39	1164	0.89	1.19		1380	1.05	1.39	
		900	1380	0.79	1.07	1271	0.73	0.99	1380	0.79	1.07	1005	
		600	1380	0.53	0.75	1380	0.53	0.75	1380	0.53	0.75		
		300	1380	0.26	0.41	1380	0.26	0.41	1380	0.26	0.41		
OUTPUT	69 rpm	100	1380	0.09	0.17	1380	0.09	0.17	977	1380	0.09	0.17	*
30	1725 rpm INPUT	1800	1243	1.18	1.70	933	0.89	1.31	1-1/2	1118	1.06	1.54	1-1/2
		1200	1553	0.99	1.46	1166	0.74	1.12		1396	0.89	1.32	
		900	1769	0.84	1.28	1328	0.63	0.99	1590	0.76	1.16	1085	
		600	1785	0.57	0.91	1512	0.48	0.79	1785	0.57	0.91		
		300	1785	0.28	0.51	1722	0.27	0.49	1785	0.28	0.51		
OUTPUT	57.5 rpm	100	1785	0.09	0.21	1785	0.09	0.21	933	1785	0.09	0.21	*
40	1725 rpm INPUT	1800	1261	0.90	1.36	927	0.66	1.04	1	1134	0.81	1.23	1-1/2
		1200	1475	0.70	1.10	1151	0.55	0.88		1408	0.67	1.06	
		900	1475	0.53	0.86	1283	0.46	0.76	1475	0.53	0.86	1134	
		600	1475	0.35	0.62	1430	0.34	0.60	1475	0.35	0.62		
		300	1475	0.18	0.35	1475	0.18	0.35	1475	0.18	0.35		
OUTPUT	43.1 rpm	100	1475	0.06	0.15	1475	0.06	0.15	889	1475	0.06	0.15	*
50	1725 rpm INPUT	1800	1234	0.71	1.10	888	0.51	0.83	3/4	1109	0.63	1.00	1
		1200	1380	0.53	0.86	1056	0.40	0.68		1320	0.50	0.83	
		900	1380	0.39	0.67	1151	0.33	0.58	1380	0.39	0.67	1106	
		600	1380	0.26	0.48	1255	0.24	0.45	1380	0.26	0.48		
		300	1380	0.13	0.28	1369	0.13	0.28	1380	0.13	0.28		
OUTPUT	34.5 rpm	100	1380	0.04	0.12	1380	0.04	0.12	782	1380	0.04	0.12	
60	1725 rpm INPUT	1800	1137	0.54	0.91	826	0.39	0.70	3/4	1052	0.50	0.85	1
		1200	1137	0.36	0.65	978	0.31	0.58		1137	0.36	0.65	
		900	1137	0.27	0.52	1065	0.25	0.49	1137	0.27	0.52	1052	
		600	1137	0.18	0.37	1137	0.18	0.37	1137	0.18	0.37		
		300	1137	0.09	0.22	1137	0.09	0.22	1137	0.09	0.22		
OUTPUT	28.8 rpm	100	1137	0.03	0.10	1137	0.03	0.10	826	1137	0.03	0.10	*

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 2.625". Maximum NEMA motor frame size: 184C — 145TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.

4

***SHAFT OVERHUNG AND THRUST LOADS (Includes Fan Cooled and Motorized where applicable)

—	ALL		CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
	INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †	
349	835	835	749	712	707	835	775	726	712	1626	1626	1340	1725 rpm INPUT 5 OUTPUT 345 rpm	
349	835	835	749	750	744	835	775	768	750	1780	1740	1340		
349	835	835	749	772	764	835	775	793	772	1893	1740	1340		
349	835	835	749	858	849	835	775	882	859	2123	1740	1340		
349	835	835	749	1204	1195	835	775	1230	1206	2266	1740	1340		
349	835	835	749	1922	1912	835	775	1562	1632	2266	1740	1340		
349	835	835	749	879	875	835	775	893	879	1915	1740	1340	1725 rpm INPUT 7-1/2 OUTPUT 230 rpm	
349	835	835	749	942	936	835	775	959	942	2110	1740	1340		
349	835	835	749	995	989	835	775	1015	995	2266	1740	1340		
349	835	835	749	1110	1102	835	775	1132	1110	2266	1740	1340		
349	835	835	749	1475	1467	835	775	1500	1476	2266	1740	1340		
349	835	835	749	2285	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	991	987	835	775	1006	992	2121	1740	1340	1725 rpm INPUT 10 OUTPUT 172.5 rpm	
349	835	835	749	1067	1061	835	775	1085	1067	2266	1740	1340		
349	835	835	749	1189	1183	835	775	1208	1190	2266	1740	1340		
349	835	835	749	1403	1397	835	775	1422	1404	2266	1740	1340		
349	835	835	749	1829	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1235	1231	835	775	1244	1228	2266	1740	1340	1725 rpm INPUT 15 OUTPUT 115 rpm	
349	835	835	749	1351	1345	835	775	1361	1342	2266	1740	1340		
349	835	835	749	1449	1442	835	775	1461	1439	2266	1740	1340		
349	835	835	749	1671	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2159	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1385	1380	835	775	1393	1378	2266	1740	1340	1725 rpm INPUT 20 OUTPUT 86.3 rpm	
349	835	835	749	1547	1541	835	775	1557	1539	2266	1740	1340		
349	835	835	749	1716	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1982	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1499	1494	835	775	1508	1494	2266	1740	1340	1725 rpm INPUT 25 OUTPUT 69 rpm	
349	835	835	749	1709	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1890	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2172	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1647	1632	835	775	1562	1632	2266	1740	1340	1725 rpm INPUT 30 OUTPUT 57.5 rpm	
349	835	835	749	1823	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1966	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2261	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1833	1632	835	775	1562	1632	2266	1740	1340	1725 rpm INPUT 40 OUTPUT 43.1 rpm	
349	835	835	749	2056	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2265	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	1989	1632	835	775	1562	1632	2266	1740	1340	1725 rpm INPUT 50 OUTPUT 34.5 rpm	
349	835	835	749	2245	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2146	1632	835	775	1562	1632	2266	1740	1340	1725 rpm INPUT 60 OUTPUT 28.8 rpm	
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		
349	835	835	749	2356	1632	835	775	1562	1632	2266	1740	1340		

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

‡ 5/32" from centerline

5



SINGLE REDUCTION SERIES REDUCER NO. 5

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	GRIME HP 1800 RPM D/P TQUE	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP		
5 (5-1/5)	1725 rpm INPUT	1800	1399	7.69	8.36	979	5.38	5.91	5	1119	6.15	6.72	7-1/2
		1200	1739	6.37	6.99	1217	4.46	4.94		1391	5.09	5.62	
		900	2055	5.64	6.24	1439	3.95	4.41		1644	4.52	5.02	
		600	2429	4.45	4.98	1700	3.11	3.52	1943	3.56	4.01	1119	
		300	2870	2.63	3.03	2009	1.84	2.14	2296	2.10	2.44		
	OUTPUT 345 rpm	100	3208	0.98	1.20	2246	0.68	0.85	2567	0.78	0.97		
7-1/2 (7-1/5)	1725 rpm INPUT	1800	1609	6.38	7.02	1123	4.46	4.95	5	1287	5.11	5.65	5
		1200	2015	5.33	5.92	1406	3.72	4.17		1612	4.26	4.76	
		900	2318	4.60	5.15	1618	3.21	3.63		1855	3.68	4.14	
		600	2545	3.37	3.83	1862	2.46	2.83	2134	2.82	3.23	1287	
		300	2545	1.68	1.99	2143	1.42	1.69	2456	1.62	1.92		
	OUTPUT 230 rpm	100	2545	0.56	0.72	2353	0.52	0.66	2545	0.56	0.72		
10 (10-1/3)	1725 rpm INPUT	1800	1737	4.80	5.39	1202	3.32	3.78	3	1389	3.84	4.34	5
		1200	2192	4.04	4.58	1517	2.80	3.21		1754	3.23	3.70	
		900	2463	3.40	3.90	1704	2.36	2.74		1970	2.72	3.15	
		600	2767	2.55	2.98	1915	1.76	2.09	2214	2.04	2.40	1389	
		300	3109	1.43	1.74	2152	0.99	1.23	2487	1.15	1.41		
	OUTPUT 167 rpm	100	3132	0.48	0.64	2325	0.36	0.48	2688	0.41	0.55		
15 (15-1/2)	1725 rpm INPUT	1800	1877	3.46	4.06	1282	2.36	2.83	3	1501	2.77	3.28	3
		1200	2351	2.89	3.44	1606	1.97	2.39		1881	2.31	2.78	
		900	2632	2.42	2.93	1797	1.66	2.04		2105	1.94	2.37	
		600	2945	1.81	2.24	2012	1.24	1.56	2356	1.45	1.81	1365	
		300	3132	0.96	1.26	2252	0.69	0.93	2637	0.81	1.07		
	OUTPUT 115 rpm	100	3132	0.32	0.47	2727	0.25	0.37	2843	0.29	0.43		
20	1725 rpm INPUT	1800	1932	2.76	3.33	1314	1.88	2.32	2	1546	2.21	2.70	3
		1200	2376	2.26	2.78	1616	1.54	1.94		1901	1.81	2.25	
		900	2635	1.88	2.36	1792	1.28	1.64		2108	1.51	1.91	
		600	2715	1.29	1.67	1987	0.95	1.25	2328	1.11	1.46	1546	
		300	2715	0.65	0.90	2203	0.52	0.74	2592	0.62	0.86		
	OUTPUT 86.3 rpm	100	2715	0.21	0.34	2360	0.19	0.30	2715	0.22	0.34		
25	1725 rpm INPUT	1800	1912	2.19	2.81	1289	1.47	1.95	2	1530	1.75	2.28	2
		1200	2430	1.85	2.43	1638	1.25	1.69		1944	1.48	1.98	
		900	2740	1.57	2.10	1847	1.06	1.46		2192	1.25	1.71	
		600	3089	1.18	1.64	2082	0.79	1.14	2471	0.94	1.33	1324	
		300	3482	0.66	1.00	2347	0.45	0.70	2786	0.53	0.81		
	OUTPUT 69 rpm	100	3484	0.22	0.39	2542	0.16	0.30	3017	0.19	0.34		
30	1725 rpm INPUT	1800	1942	1.85	2.45	1297	1.23	1.69	1-1/2	1554	1.48	2.00	2
		1200	2428	1.54	2.09	1622	1.03	1.45		1942	1.23	1.70	
		900	2714	1.29	1.80	1813	0.86	1.24		2171	1.03	1.46	
		600	3035	0.96	1.40	2027	0.64	0.97	2428	0.77	1.14	1554	
		300	3189	0.51	0.81	2267	0.36	0.59	2714	0.43	0.70		
	OUTPUT 57.5 rpm	100	3189	0.17	0.32	2442	0.13	0.25	2924	0.16	0.30		
40	1725 rpm INPUT	1800	1939	1.38	1.95	1268	0.91	1.34	1-1/2	1551	1.11	1.60	1-1/2
		1200	2377	1.13	1.64	1554	0.74	1.12		1901	0.91	1.34	
		900	2631	0.94	1.40	1721	0.61	0.96		2105	0.75	1.15	
		600	2715	0.65	1.02	1905	0.45	0.75	2330	0.56	0.89	1446	
		300	2715	0.32	0.57	2109	0.25	0.46	2580	0.31	0.55		
	OUTPUT 43.1 rpm	100	2715	0.11	0.23	2258	0.09	0.20	2715	0.11	0.23		
50	1725 rpm INPUT	1800	1871	1.07	1.60	1197	0.68	1.09	1	1496	0.86	1.32	1-1/2
		1200	2265	0.86	1.34	1450	0.55	0.91		1812	0.69	1.10	
		900	2350	0.67	1.08	1596	0.45	0.77		1995	0.57	0.94	
		600	2350	0.45	0.77	1756	0.33	0.60	2195	0.42	0.73	1496	
		300	2350	0.22	0.44	1932	0.18	0.38	2350	0.22	0.44		
	OUTPUT 34.5 rpm	100	2350	0.08	0.18	2060	0.07	0.17	2350	0.07	0.18		
60	1725 rpm INPUT	1800	1773	0.84	1.35	1113	0.53	0.91	1	1418	0.68	1.11	1
		1200	2056	0.65	1.09	1338	0.42	0.75		1704	0.54	0.92	
		900	2056	0.49	0.86	1466	0.35	0.64		1867	0.44	0.79	
		600	2056	0.33	0.62	1607	0.26	0.50	2047	0.33	0.62	1250	
		300	2056	0.16	0.36	1761	0.14	0.32	2056	0.16	0.36		
	OUTPUT 28.8 rpm	100	2056	0.05	0.15	1872	0.05	0.14	2056	0.05	0.15		

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 3.000". Maximum NEMA motor frame size: 215C — 184TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
5

*****SHAFT OVERHUNG AND THRUST LOADS (includes Fan Cooled and Motorized where applicable)**

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
412	1329	1329	1265	940	934	1329	1867	1101	976	2031	2031	2268	1725 rpm INPUT 5 (5-1/5) OUTPUT 345 rpm	
412	1329	1329	1265	997	989	1329	1867	1135	1004	2172	2172	2268		
412	1329	1329	1265	1020	1011	1329	1867	1164	1029	2286	2286	2268		
412	1329	1329	1265	1103	1092	1329	1867	1262	1114	2522	2522	2268		
412	1329	1329	1265	1386	1373	1329	1867	1587	1401	2817	2817	2268		
412	1329	1329	1265	2178	2162	1329	1867	2160	2198	2817	2817	2268		
412	1329	1329	1265	1089	1084	1329	1867	1234	1096	2257	2257	2268	1725 rpm INPUT 7-1/2 (7-1/5) OUTPUT 230 rpm	
412	1329	1329	1265	1160	1153	1329	1867	1317	1169	2462	2462	2268		
412	1329	1329	1265	1218	1210	1329	1867	1385	1229	2627	2627	2268		
412	1329	1329	1265	1393	1384	1329	1867	1585	1406	2817	2817	2268		
412	1329	1329	1265	1892	1882	1329	1867	2151	1906	2817	2817	2268		
412	1329	1329	1265	2916	2905	1329	1867	2160	2935	2817	2817	2268		
412	1329	1329	1265	1298	1293	1329	1867	1467	1307	2619	2619	2268	1725 rpm INPUT 10 (10-1/3) OUTPUT 167 rpm	
412	1329	1329	1265	1394	1387	1329	1867	1577	1406	2817	2817	2268		
412	1329	1329	1265	1493	1485	1329	1867	1690	1506	2817	2817	2268		
412	1329	1329	1265	1684	1675	1329	1867	1908	1699	2817	2817	2268		
412	1329	1329	1265	2131	2120	1329	1867	2160	2151	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	1603	1599	1329	1867	1786	1602	2817	2817	2268	1725 rpm INPUT 15 (15-1/2) OUTPUT 115 rpm	
412	1329	1329	1265	1754	1748	1329	1867	1951	1752	2817	2817	2268		
412	1329	1329	1265	1892	1885	1329	1867	2104	1890	2817	2817	2268		
412	1329	1329	1265	2133	2125	1329	1867	2160	2132	2817	2817	2268		
412	1329	1329	1265	2714	2706	1329	1867	2160	2715	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	1792	1787	1329	1867	1993	1789	2817	2817	2268	1725 rpm INPUT 20 OUTPUT 86.3 rpm	
412	1329	1329	1265	1976	1971	1329	1867	2160	1973	2817	2817	2268		
412	1329	1329	1265	2141	2135	1329	1867	2160	2137	2817	2817	2268		
412	1329	1329	1265	2462	2455	1329	1867	2160	2459	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	1999	1995	1329	1867	2160	1992	2817	2817	2268	1725 rpm INPUT 25 OUTPUT 69 rpm	
412	1329	1329	1265	2203	2197	1329	1867	2160	2194	2817	2817	2268		
412	1329	1329	1265	2379	2372	1329	1867	2160	2369	2817	2817	2268		
412	1329	1329	1265	2680	2673	1329	1867	2160	2669	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2140	2136	1329	1867	2160	2133	2817	2817	2268	1725 rpm INPUT 30 OUTPUT 57.5 rpm	
412	1329	1329	1265	2374	2368	1329	1867	2160	2364	2817	2817	2268		
412	1329	1329	1265	2570	2564	1329	1867	2160	2560	2817	2817	2268		
412	1329	1329	1265	2898	2891	1329	1867	2160	2887	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2388	2384	1329	1867	2160	2380	2817	2817	2268	1725 rpm INPUT 40 OUTPUT 43.1 rpm	
412	1329	1329	1265	2662	2657	1329	1867	2160	2653	2817	2817	2268		
412	1329	1329	1265	2890	2885	1329	1867	2160	2880	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2601	2597	1329	1867	2160	2954	2817	2817	2268	1725 rpm INPUT 50 OUTPUT 34.5 rpm	
412	1329	1329	1265	2908	2903	1329	1867	2160	2899	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2789	2785	1329	1867	2160	2781	2817	2817	2268	1725 rpm INPUT 60 OUTPUT 28.8 rpm	
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		
412	1329	1329	1265	2960	2960	1329	1867	2160	3024	2817	2817	2268		

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 6.875" from centerline.

5



SINGLE REDUCTION SERIES REDUCER NO. 6

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL ★				THERMAL ★				FAN COOLED – THERMAL ★			
	INPUT SPEED RPM	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	GRIMM HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	
1725rpm INPUT 5 (5-1/6) OUTPUT 345 rpm	1800	1975	10.92	11.78	1383	7.64	8.31	7-1/2	1580	8.74	9.47	10
	1200	2406	8.87	9.66	1684	6.21	6.81		1925	7.09	7.76	
	900	2915	8.06	8.83	2040	5.64	6.23		2332	6.45	7.10	
	600	3532	6.51	7.22	2472	4.56	5.09	1244	2825	5.21	5.00	1580*
	300	3869	3.56	4.08	2995	2.76	3.18		3423	3.15	3.62	
	100	3869	1.19	1.45	3404	1.05	1.28		3869	1.19	1.45	
1725 rpm INPUT 7-1/2 OUTPUT 230 rpm	1800	2235	8.51	9.36	1556	5.92	6.58	7-1/2	1788	6.81	7.53	7-1/2
	1200	2748	6.98	7.76	1913	4.86	5.45		2198	5.58	6.24	
	900	3297	6.28	7.04	2295	4.37	4.94		2638	5.02	5.66	
	600	3956	5.02	5.71	2753	3.50	4.01	1556*	3165	4.02	4.60	1780
	300	4075	2.59	3.06	3303	2.10	2.50		3797	2.41	2.86	
	100	4075	0.86	1.10	3730	0.79	1.02		4075	0.86	1.10	
1725 rpm INPUT 10 (10-1/3) OUTPUT 172.5 rpm	1800	2419	6.69	7.56	1679	4.64	5.31	5	1935	5.35	6.09	7-1/2
	1200	2984	5.50	6.31	2071	3.82	4.43		2387	4.40	5.08	
	900	3566	4.93	5.71	2475	3.42	4.01		2853	3.94	4.60	
	600	4075	3.75	4.44	2957	2.72	3.26	1576	3409	3.14	3.74	1935*
	300	4075	1.88	2.34	3534	1.63	2.04		4073	1.88	2.34	
	100	4075	0.63	0.86	3979	0.61	0.84		4075	0.63	0.86	
1725 rpm INPUT 15 OUTPUT 115 rpm	1800	2573	4.90	5.80	1770	3.37	4.05	3	2059	3.92	4.68	5
	1200	3181	4.04	4.87	2189	2.78	3.40		2545	3.23	3.93	
	900	3790	3.61	4.42	2608	2.48	3.08		3032	2.89	3.56	
	600	4075	2.59	3.26	3107	1.97	2.52	1286	3613	2.29	2.90	2059*
	300	4075	1.29	1.74	3702	1.18	1.59		4075	1.29	1.74	
	100	4075	0.43	0.66	4075	0.43	0.66		4075	0.43	0.66	
1725 rpm INPUT 20 OUTPUT 86.3 rpm	1800	2744	3.92	4.70	1864	2.66	3.26	3	2195	3.14	3.80	5
	1200	3430	3.27	4.00	2330	2.22	2.77		2744	2.61	3.23	
	900	3661	2.61	3.26	2658	1.90	2.41		3131	2.24	2.81	
	600	3661	1.74	2.25	3033	1.44	1.89	1705	3573	1.70	2.20	2195*
	300	3661	0.87	1.22	3461	0.82	1.16		3661	0.87	1.22	
	100	3661	0.29	0.47	3661	0.29	0.47		3661	0.29	0.47	
1725 rpm INPUT 25 OUTPUT 69 rpm	1800	2582	2.95	3.90	1740	1.99	2.70	3	2066	2.36	3.16	3
	1200	3157	2.41	3.28	2128	1.62	2.26		2526	1.92	2.66	
	900	3810	2.18	3.04	2568	1.47	2.09		3048	1.74	2.46	
	600	4598	1.75	2.54	3099	1.18	1.76	1740*	3678	1.40	2.06	1952
	300	4804	0.92	1.46	3740	0.71	1.16		4439	0.85	1.35	
	100	4804	0.31	0.58	4239	0.27	0.52		4804	0.31	0.58	
1725 rpm INPUT 30 OUTPUT 57.5 rpm	1800	2653	2.53	3.43	1772	1.69	2.36	2	2122	2.02	2.79	3
	1200	3284	2.08	2.93	2194	1.39	2.01		2627	1.67	2.37	
	900	3905	1.86	2.68	2609	1.24	1.84		3124	1.49	2.17	
	600	4075	1.29	1.96	3103	0.99	1.52	1476	3716	1.18	1.80	2122*
	300	4075	0.65	1.09	3690	0.59	1.00		4075	0.65	1.09	
	100	4075	0.22	0.44	4075	0.22	0.44		4075	0.22	0.44	
1725 rpm INPUT 40 OUTPUT 43.1 rpm	1800	2748	1.96	2.72	1797	1.28	1.85	2	2199	1.57	2.22	2
	1200	3433	1.63	2.34	2245	1.07	1.58		2747	1.31	1.90	
	900	3600	1.29	1.90	2557	0.91	1.39		3128	1.12	1.67	
	600	3600	0.86	1.34	2913	0.69	1.11	1797*	3563	0.85	1.33	1963
	300	3600	0.43	0.76	3318	0.40	0.71		3600	0.43	0.76	
	100	3600	0.14	0.31	3600	0.14	0.31		3600	0.14	0.31	
1725 rpm INPUT 50 OUTPUT 34.5 rpm	1800	2565	1.47	2.17	1641	0.94	1.46	1-1/2	2052	1.17	1.78	2
	1200	3000	1.14	1.77	2118	0.81	1.30		2648	1.01	1.58	
	900	3000	0.86	1.39	2406	0.69	1.14		3000	0.86	1.39	
	600	3000	0.57	0.99	2734	0.52	0.91	1641*	3000	0.57	0.99	2052*
	300	3000	0.29	0.57	3000	0.29	0.57		3000	0.29	0.57	
	100	3000	0.10	0.24	3000	0.10	0.24		3000	0.10	0.24	
1725 rpm INPUT 60 OUTPUT 28.8 rpm	1800	2399	1.14	1.98	1507	0.72	1.32	1-1/2	1919	0.91	1.62	1-1/2
	1200	2850	0.90	1.65	1866	0.59	1.14		2376	0.75	1.41	
	900	2850	0.68	1.31	2218	0.53	1.05		2825	0.67	1.30	
	600	2850	0.45	0.95	2636	0.42	0.89	1507*	2850	0.45	0.95	1751
	300	2850	0.23	0.56	2850	0.23	0.56		2850	0.23	0.56	
	100	2850	0.08	0.25	2850	0.08	0.25		2850	0.08	0.25	

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 3.500". Maximum nema motor frame size: 215C — 184TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
6

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
654	1391	1391	1309	1052	1051	2089	2532	1259	1061	2996	2996	2268	1725rpm INPUT 5 (5-1/6) OUTPUT 345 rpm	
654	1391	1391	1309	1102	1100	2089	2532	1337	1113	3270	3024	2268		
654	1391	1391	1309	1141	1139	2089	2532	1399	1154	3486	3024	2268		
654	1391	1391	1309	1182	1180	2089	2532	1477	1199	3799	3024	2268		
654	1391	1391	1309	1417	1414	2089	2532	1782	1440	3920	3024	2268		
654	1391	1391	1309	2251	2247	2089	2532	2176	2283	3920	3024	2268		
654	1391	1391	1309	1329	1328	2089	2532	1560	1334	3585	3024	2268	1725 rpm INPUT 7-1/2 OUTPUT 230 rpm	
654	1391	1391	1309	1437	1435	2089	2532	1700	1443	3920	3024	2268		
654	1391	1391	1309	1481	1479	2089	2532	1769	1489	3920	3024	2268		
654	1391	1391	1309	1603	1601	2089	2532	1930	1613	3920	3024	2268		
654	1391	1391	1309	2163	2160	2089	2532	2176	2174	3920	3024	2268		
654	1391	1391	1309	3379	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	1580	1578	2089	2532	1828	1579	3920	3024	2268	1725 rpm INPUT 10 (10-1/3) OUTPUT 172.5 rpm	
654	1391	1391	1309	1725	1723	2089	2532	2006	1724	3920	3024	2268		
654	1391	1391	1309	1806	1804	2089	2532	2114	1806	3920	3024	2268		
654	1391	1391	1309	2023	2021	2089	2532	2176	2023	3920	3024	2268		
654	1391	1391	1309	2670	2667	2089	2532	2176	2671	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	1875	1873	2089	2532	2147	1869	3920	3024	2268	1725 rpm INPUT 15 OUTPUT 115 rpm	
654	1391	1391	1309	2059	2057	2089	2532	2176	2052	3920	3024	2268		
654	1391	1391	1309	2180	2177	2089	2532	2176	2172	3920	3024	2268		
654	1391	1391	1309	2487	2485	2089	2532	2176	2479	3920	3024	2268		
654	1391	1391	1309	3220	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	2076	2074	2089	2532	2176	2073	3920	3024	2268	1725 rpm INPUT 20 OUTPUT 86.3 rpm	
654	1391	1391	1309	2281	2279	2089	2532	2176	2277	3920	3024	2268		
654	1391	1391	1309	2493	2491	2089	2532	2176	2489	3920	3024	2268		
654	1391	1391	1309	2889	2887	2089	2532	2176	2886	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	2345	2344	2089	2532	2176	2336	3920	3024	2268	1725 rpm INPUT 25 OUTPUT 69 rpm	
654	1391	1391	1309	2604	2603	2089	2532	2176	2594	3920	3024	2268		
654	1391	1391	1309	2778	2776	2089	2532	2176	2765	3920	3024	2268		
654	1391	1391	1309	3080	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	2498	2497	2089	2532	2176	2489	3920	3024	2268	1725 rpm INPUT 30 OUTPUT 57.5 rpm	
654	1391	1391	1309	2771	2769	2089	2532	2176	2760	3920	3024	2268		
654	1391	1391	1309	2968	2966	2089	2532	2176	2955	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	2778	2777	2089	2532	2176	2770	3920	3024	2268	1725 rpm INPUT 40 OUTPUT 43.1 rpm	
654	1391	1391	1309	3086	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3379	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3032	3024	2089	2532	2176	3024	3920	3024	2268	1725 rpm INPUT 50 OUTPUT 34.5 rpm	
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3249	3024	2089	2532	2176	3024	3920	3024	2268	1725 rpm INPUT 60 OUTPUT 28.8 rpm	
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		
654	1391	1391	1309	3385	3024	2089	2532	2176	3024	3920	3024	2268		

***Overhung load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 6.6875" from centerline.

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SINGLE REDUCTION SERIES REDUCER NO. 7

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O.P. TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
7-1/2 (7-1/4)	1725 rpm INPUT	1800	3008	11.85	12.98	2097	8.26	9.14	10	2407	9.48	10.45	10
		1200	3792	9.96	10.98	2643	6.94	7.72		3034	7.97	8.83	
		900	4435	8.74	9.69	3091	6.09	6.81	3548	6.99	7.79		
		600	5429	7.13	8.00	3784	4.97	5.62	4343	5.70	6.43		
	OUTPUT 230 rpm	300	6573	4.32	4.99	4632	3.04	3.55	5317	3.49	4.05	2300	
	100	6573	1.44	1.77	5301	1.16	1.44	6084	1.33	1.65			
10 (9-3/4)	1725 rpm INPUT	1800	3304	9.68	10.71	2293	6.72	7.53	7-1/2	2643	7.74	8.63	10
		1200	4129	8.06	8.99	2866	5.60	6.31		3303	6.45	7.24	
		900	4829	7.06	7.92	3346	4.90	5.56	3857	5.65	6.38		
		600	5630	5.50	6.25	3907	3.87	4.38	4504	4.40	5.03		
	OUTPUT 172.5 rpm	300	6109	2.98	3.51	4562	2.23	2.65	5259	2.57	3.04	2643	
	100	6109	0.99	1.16	5059	0.82	1.05	5832	0.95	1.20			
15 (14-1/2)	1725 rpm INPUT	1800	3496	6.89	8.06	2402	4.73	5.64	5	2797	5.51	6.51	7-1/2
		1200	4265	5.60	6.64	2930	3.85	4.64		3412	4.48	5.36	
		900	5160	5.08	6.09	3544	3.49	4.24	4128	4.07	4.91		
		600	6242	4.10	5.01	4287	2.82	3.49	4993	3.28	4.04		
	OUTPUT 115 rpm	300	6611	2.17	2.80	5186	1.70	2.22	6040	1.98	2.56	2797	
	100	6611	0.72	1.04	5887	0.64	0.93	6611	0.72	1.04			
20	1725 rpm INPUT	1800	3697	5.28	6.33	2514	3.59	4.41	5	2958	4.22	5.13	5
		1200	4629	4.41	5.35	3147	3.00	3.71		3703	3.53	4.32	
		900	5360	3.83	4.70	3645	2.60	3.26	4288	3.06	3.80		
		600	6149	2.93	3.68	4221	2.01	2.57	4966	2.36	3.00		
	OUTPUT 86.3 rpm	300	6149	1.46	1.96	4889	1.16	1.58	5752	1.37	1.84	2878	
	100	6149	0.49	0.74	5391	0.43	0.65	6149	0.49	0.74			
25 (26)	1725 rpm INPUT	1800	3743	4.11	5.08	2515	2.76	3.52	3	2994	3.29	4.13	5
		1200	4678	3.43	4.29	3143	2.30	2.96		3742	2.74	3.47	
		900	5050	2.77	3.53	3585	1.97	2.56	4267	2.34	3.01		
		600	5050	1.85	2.43	4088	1.50	2.00	4867	1.78	2.35		
	OUTPUT 69 rpm	300	5050	0.92	1.31	4662	0.85	1.22	5050	0.92	1.31	2994	
	100	5050	0.31	0.50	5050	0.31	0.50	5050	0.31	0.50			
30	1725 rpm INPUT	1800	3622	3.49	4.64	2419	2.30	3.20	3	2898	2.76	3.77	5
		1200	4429	2.81	3.87	2959	1.88	2.66		3543	2.25	3.14	
		900	5345	2.54	3.56	3570	1.70	2.44	4276	2.04	2.89		
		600	6450	2.05	2.97	4309	1.37	2.03	5160	1.64	2.40		
	OUTPUT 57.5 rpm	300	6664	1.06	1.68	5199	0.83	1.33	6227	0.99	1.57	2898	
	100	6664	0.35	0.66	5893	0.31	0.59	6664	0.35	0.66			
40 (39)	1725 rpm INPUT	1800	3710	2.72	3.73	2430	1.78	2.55	2	2968	2.17	3.05	3
		1200	4646	2.27	3.17	3043	1.49	2.16		3716	1.81	2.59	
		900	5293	1.94	2.77	3516	1.29	1.90	4295	1.57	2.28		
		600	5293	1.29	1.93	4064	0.99	1.52	4963	1.21	1.82		
	OUTPUT 43.1 rpm	300	5293	0.65	1.07	4696	0.57	0.96	5293	0.65	1.07	2914	
	100	5293	0.22	0.43	5172	0.21	0.42	5293	0.22	0.43			
50 (51)	1725 rpm INPUT	1800	3564	2.00	2.92	2271	1.28	1.98	2	2851	1.60	2.40	2
		1200	4452	1.66	2.48	2845	1.06	1.67		3562	1.33	2.03	
		900	4770	1.34	2.05	3240	0.91	1.45	4056	1.14	1.77		
		600	4770	0.89	1.44	3690	0.69	1.15	4619	0.86	1.40		
	OUTPUT 34.5 rpm	300	4770	0.45	0.81	4202	0.39	0.73	4770	0.45	0.81	2302	
	100	4770	0.15	0.33	4583	0.14	0.32	4770	0.15	0.33			
60	1725 rpm INPUT	1800	3283	1.56	2.43	2062	0.98	1.64	1-1/2	2626	1.25	2.01	2
		1200	4237	1.35	2.13	2661	0.84	1.42		3390	1.08	1.75	
		900	4635	1.10	1.79	3023	0.72	1.24	3851	0.92	1.52		
		600	4635	0.74	1.27	3434	0.55	0.98	4374	0.69	1.21		
	OUTPUT 28.8 rpm	300	4635	0.37	0.72	3901	0.31	0.62	4635	0.37	0.72	2613	
	100	4635	0.12	0.30	4247	0.11	0.28	4635	0.12	0.30			

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 4.000". Maximum NEMA motor frame size: 215C — 184TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
7

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL	CB-CT	CV (VERTICAL SHAFT)					L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
525	1924	1924	1795	1799	1793	2871	2428	734	1802	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	1937	1930	2871	2428	738	1940	4208	3024	2268	7-1/2 (7-1/4)	
525	1924	1924	1795	2032	2032	2871	2428	728	2036	4208	3024	2268		
525	1924	1924	1795	2184	2173	2871	2428	716	2190	4208	3024	2268		
525	1924	1924	1795	2691	2678	2871	2428	885	2700	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	1766	3024	4208	3024	2268		OUTPUT 230 rpm
525	1924	1924	1795	1972	1963	2871	2428	823	1989	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	2133	2122	2871	2428	840	2155	4208	3024	2268	10 (9-3/4)	
525	1924	1924	1795	2240	2228	2871	2428	837	2267	4208	3024	2268		
525	1924	1924	1795	2475	2461	2871	2428	894	2507	4208	3024	2268		
525	1924	1924	1795	3209	3024	2871	2428	1255	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2228	3024	4208	3024	2268		OUTPUT 172.5 rpm
525	1924	1924	1795	2503	2498	2871	2428	1180	2497	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	2769	2762	2871	2428	1276	2762	4208	3024	2268	15 (14-1/2)	
525	1924	1924	1795	2930	2922	2871	2428	1306	2922	4208	3024	2268		
525	1924	1924	1795	3225	3024	2871	2428	1394	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	1871	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2983	3024	4208	3024	2268		OUTPUT 115 rpm
525	1924	1924	1795	2825	2819	2871	2428	1368	2822	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3114	3024	2871	2428	1470	3024	4208	3024	2268	20	
525	1924	1924	1795	3338	3024	2871	2428	1549	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	1729	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2320	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 86.3 rpm
525	1924	1924	1795	3136	3024	2871	2428	1556	3024	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3470	3024	2871	2428	1688	3024	4208	3024	2268	25 (26)	
525	1924	1924	1795	3516	3024	2871	2428	1843	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2164	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2813	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 69 rpm
525	1924	1924	1795	3380	3024	2871	2428	1722	3024	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3516	3024	2871	2428	1899	3024	4208	3024	2268	30	
525	1924	1924	1795	3516	3024	2871	2428	1997	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2193	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2840	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 57.5 rpm
525	1924	1924	1795	3516	3024	2871	2428	1913	3024	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3516	3024	2871	2428	2098	3024	4208	3024	2268	40 (39)	
525	1924	1924	1795	3516	3024	2871	2428	2256	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2622	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 43.1 rpm
525	1924	1924	1795	3516	3024	2871	2428	2137	3024	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3516	3024	2871	2428	2359	3024	4208	3024	2268	50 (51)	
525	1924	1924	1795	3516	3024	2871	2428	2576	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	2975	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 34.5 rpm
525	1924	1924	1795	3516	3024	2871	2428	2321	3024	4208	3024	2268	1725 rpm INPUT	
525	1924	1924	1795	3516	3024	2871	2428	2558	3024	4208	3024	2268	60	
525	1924	1924	1795	3516	3024	2871	2428	2784	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		
525	1924	1924	1795	3516	3024	2871	2428	3200	3024	4208	3024	2268		OUTPUT 28.8 rpm

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 8.1875" from centerline.

5



SINGLE REDUCTION SERIES REDUCER NO. 8

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP		
7-1/2 (7-3/4)	1725 rpm INPUT	1800	4215	15.53	16.89	2942	10.84	11.92	10	3372	12.43	13.60	15
		1200	5313	13.05	14.27	3708	9.11	10.05		4250	10.44	11.48	
	OUTPUT 230 rpm	900	6219	11.46	12.59	4341	8.00	8.87	2448	4975	9.17	10.13	3372*
		600	7555	7.28	10.30	5273	6.48	7.25		6044	7.42	8.28	
		300	9178	5.64	6.42	6406	3.94	4.52		7342	4.51	5.16	
		100	10449	2.14	2.58	7293	1.49	1.82		8359	1.71	2.08	
10 (9-3/4)	1725 rpm INPUT	1800	4466	13.08	14.39	3100	9.08	10.12	10	3573	10.47	11.60	15
		1200	5554	10.85	12.00	3854	7.53	8.42		4443	8.68	9.66	
	OUTPUT 172.5 rpm	900	6558	9.61	10.69	4551	6.67	7.49	3059	5247	7.68	8.60	3573*
		600	7744	7.56	8.51	5375	5.25	5.97		6195	6.05	6.85	
		300	8622	4.21	4.89	6347	3.10	3.63		7316	3.57	4.17	
		100	8622	1.40	1.75	7090	1.15	1.45		8173	1.33	1.66	
15 (15-1/4)	1725 rpm INPUT	1800	4845	9.07	10.26	3329	6.23	7.19	7-1/2	3876	7.26	8.30	7-1/2
		1200	6064	7.57	8.62	4166	5.20	6.02		4851	6.06	6.95	
	OUTPUT 115 rpm	900	6510	6.10	7.00	4776	4.47	5.20	3329*	5561	5.21	6.02	3482
		600	6510	4.06	4.76	5475	3.42	4.03		6375	3.98	4.67	
		300	6510	2.03	2.49	6276	1.96	2.40		6510	2.03	2.49	
		100	6510	0.68	0.91	6510	0.68	0.91		6510	0.68	0.91	
20	1725 rpm INPUT	1800	4981	7.11	8.32	3392	4.84	5.81	5	3985	5.69	6.75	7-1/2
		1200	6231	5.93	7.00	4243	4.04	4.86		4985	4.75	5.66	
	OUTPUT 86.3 rpm	900	7125	5.09	6.06	4852	3.46	4.20	2882	5700	4.07	4.89	3985*
		600	8148	3.88	4.70	5549	2.64	3.26		6518	3.10	3.80	
		300	8970	2.14	2.72	6345	1.51	1.96		7454	1.77	2.28	
		100	8970	0.71	1.01	6938	0.55	0.80		8151	0.65	0.92	
25	1725 rpm INPUT	1800	4861	5.55	6.71	3271	3.74	4.66	5	3889	4.44	5.45	5
		1200	6280	4.78	5.82	4227	3.22	4.02		5024	3.83	4.72	
	OUTPUT 69.0 rpm	900	7138	4.08	5.01	4804	2.74	3.46	3271*	5711	3.26	4.06	3536
		600	7900	3.01	3.79	5461	2.08	2.68		6491	2.47	3.14	
		300	7900	1.50	2.01	6207	1.18	1.61		7378	1.41	1.89	
		100	7900	0.50	0.76	6760	0.43	0.66		7900	0.50	0.76	
30	1725 rpm INPUT	1800	5096	4.85	6.25	3404	3.24	4.32	5	4077	3.88	5.09	5
		1200	6289	3.99	5.23	4201	2.67	3.60		5032	3.19	4.24	
	OUTPUT 57.5 rpm	900	7511	3.58	4.74	5017	2.39	3.25	3404*	6008	2.86	3.85	3999
		600	8969	2.85	3.88	5991	1.90	2.66		7175	2.28	3.15	
		300	10576	1.68	2.45	7154	1.14	1.70		8568	1.36	2.01	
		100	10576	0.56	0.95	8053	0.43	0.74		9644	0.51	0.88	
35	1725 rpm INPUT	1800	5054	4.12	5.57	3336	2.72	3.82	3	4043	3.30	4.54	5
		1200	6181	3.26	4.63	4080	2.22	2.16		4945	2.69	3.77	
	OUTPUT 49.3 rpm	900	7476	2.46	3.27	4922	1.92	2.66	2527	5967	2.43	3.45	4043*
		600	8965	2.44	3.52	5939	1.62	2.40		7199	1.96	2.86	
		300	8965	1.21	1.63	6167	0.91	1.57		8686	1.18	1.87	
		100	8965	0.41	0.77	8121	0.37	0.70		8965	0.41	0.77	
40 (39)	1725 rpm INPUT	1800	5063	3.71	4.94	3316	2.43	3.38	3	4050	2.97	4.04	5
		1200	6340	3.10	4.18	4152	2.03	2.85		5072	2.48	3.41	
	OUTPUT 43.1 rpm	900	7325	2.68	3.68	4798	1.76	2.50	2883	5860	2.15	2.99	4050*
		600	7900	1.93	2.74	5543	1.35	1.98		6771	1.65	2.38	
		300	7900	0.96	1.50	6405	0.78	1.24		7823	0.96	1.48	
		100	7900	0.32	0.60	7052	0.29	0.54		7900	0.32	0.60	
50 (51)	1725 rpm INPUT	1800	4868	2.73	3.96	3106	1.74	2.68	3	3894	2.18	3.26	3
		1200	6088	2.27	3.36	3884	1.45	2.26		4870	1.82	2.75	
	OUTPUT 34.5 rpm	900	7092	1.99	2.99	4525	1.27	2.00	3106*	5392	1.68	2.56	3539
		600	7180	1.34	2.12	5272	0.98	1.61		6610	1.23	1.97	
		300	7180	0.67	1.18	6141	0.57	1.03		7180	0.67	1.18	
		100	7180	0.22	0.49	6800	0.21	0.47		7180	0.22	0.49	
60 (61)	1725 rpm INPUT	1800	4575	2.14	3.23	2869	1.34	2.19	2	3660	1.71	2.67	3
		1200	5715	1.78	2.73	3584	1.12	1.83		4572	1.43	2.25	
	OUTPUT 28.8 rpm	900	6509	1.52	2.38	4081	0.96	1.58	2561	5207	1.22	1.95	3660*
		600	6510	1.02	1.67	4648	0.73	1.25		5930	0.93	1.54	
		300	6510	0.51	0.94	5293	0.41	0.79		6510	0.51	0.94	
		100	6510	0.17	0.39	5773	0.15	0.36		6510	0.17	0.39	

NO LONGER AVAILABLE
AS STANDARD RATIO

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 4.600". Maximum nema motor frame size: 215C — 184TC flange.

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
8

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL ±1		
586	2870	2870	2735	1627	1627	2870	2773	1674	1653	4866	4464	3636	1725 rpm INPUT 7-1/2 (7-3/4) OUTPUT 230 rpm	
586	2870	2870	2735	1704	1704	2870	2773	1764	1737	4866	4464	3636		
586	2870	2870	2735	1761	1761	2870	2773	1832	1800	4866	4464	3636		
586	2870	2870	2735	1855	1855	2870	2773	1942	1904	4866	4464	3636		
586	2870	2870	2735	2278	2278	2870	2773	2387	2340	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	3675	4866	4464	3636		
586	2870	2870	2735	1801	1801	2870	2773	1849	1826	4866	4464	3636	1725 rpm INPUT 10 (9-3/4) OUTPUT 172.5 rpm	
586	2870	2870	2735	1916	1916	2870	2773	1977	1948	4866	4464	3636		
586	2870	2870	2735	1981	1981	2870	2773	2052	2018	4866	4464	3636		
586	2870	2870	2735	2151	2151	2870	2773	2237	2196	4866	4464	3636		
586	2870	2870	2735	2799	2799	2870	2773	2899	2853	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	2283	2283	2870	2773	2321	2299	4866	4464	3636	1725 rpm INPUT 15 (15-1/4) OUTPUT 115 rpm	
586	2870	2870	2735	2472	2472	2870	2773	2520	2492	4866	4464	3636		
586	2870	2870	2735	2705	2705	2870	2773	2757	2726	4866	4464	3636		
586	2870	2870	2735	3189	3189	2870	2773	3242	3212	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4198	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	2651	2651	2870	2773	2680	2657	4866	4464	3636	1725 rpm INPUT 20 OUTPUT 86.3 rpm	
586	2870	2870	2735	2901	2901	2870	2773	2937	2908	4866	4464	3636		
586	2870	2870	2735	3103	3103	2870	2773	3145	3113	4866	4464	3636		
586	2870	2870	2735	3471	3471	2870	2773	3516	3483	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4425	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	2961	2961	2870	2773	2984	2962	4866	4464	3636	1725 rpm INPUT 25 OUTPUT 69.0 rpm	
586	2870	2870	2735	3225	3225	2870	2773	3256	3227	4866	4464	3636		
586	2870	2870	2735	3468	3468	2870	2773	3503	3470	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	3936	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3253	3253	2870	2773	3270	3246	4866	4464	3636	1725 rpm INPUT 30 OUTPUT 57.5 rpm	
586	2870	2870	2735	3516	3516	2870	2773	3516	3595	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	3835	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4261	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3466	3466	2870	2773	3481	3457	4866	4464	3636	1725 rpm INPUT 35 OUTPUT 49.3 rpm	
586	2870	2870	2735	3516	3516	2870	2773	3516	3846	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4105	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	3601	4866	4464	3636	1725 rpm INPUT 40 (39) OUTPUT 43.1 rpm	
586	2870	2870	2735	3516	3516	2870	2773	3516	3993	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4302	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	3994	4866	4464	3636	1725 rpm INPUT 50 (51) OUTPUT 34.5 rpm	
586	2870	2870	2735	3516	3516	2870	2773	3516	4443	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4287	4866	4464	3636	1725 rpm INPUT 60 (61) OUTPUT 28.8 rpm	
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		
586	2870	2870	2735	3516	3516	2870	2773	3516	4464	4866	4464	3636		

NO LONGER AVAILABLE AS STANDARD RATIO

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***Overhung load given at one shaft diameter from housing or mounting flange.

± O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 8.750" from centerline.



SINGLE REDUCTION SERIES REDUCER NO. 9

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL ★				THERMAL ★				FAN COOLED – THERMAL ★						
	INPUT SPEED RPM	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP	GR1MR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN. LBS.	OUTPUT HP	INPUT HP				
7-1/2 (7-1/4)	1725 rpm INPUT	1800	5264	20.74	22.61	3664	14.43	15.89	15	4211	16.59	18.19	20		
		1200	6635	17.43	19.12	4618	12.13	13.43			5308	13.94		15.38	
		900	7820	15.40	17.01	5443	10.72	11.93	3449	6256	12.32	13.67	4211		
		600	9787	12.85	14.34	6811	8.94	10.06			7829	10.28		11.52	
		300	11388	7.47	8.58	8951	5.88	6.78			10289	6.76		7.77	
	OUTPUT 230 rpm	100	11388	2.49	3.05	10740	2.35	2.88			11380	2.49		3.05	*
10 (10-1/4)	1725 rpm INPUT	1800	5923	16.50	18.17	4113	11.46	12.77	10	4748	13.23	14.67	15		
		1200	7466	13.87	15.36	5184	9.63	10.79			5984	11.12		12.39	
		900	8731	12.16	13.56	6063	8.45	9.51	3179	6999	9.75	10.93	4748		
		600	9862	9.16	10.35	7422	6.89	7.85			8568	7.96		9.02	
		300	9862	4.58	5.36	9085	4.22	4.95			9862	4.58		5.36	
	OUTPUT 172.5 rpm	100	9862	1.53	1.92	9862	1.53	1.92			9862	1.53		1.92	*
15 (14-1/2)	1725 rpm INPUT	1800	6080	11.98	13.96	4189	8.25	9.78	10	4864	9.58	11.27	10		
		1200	7664	10.06	11.87	5280	6.93	8.30			6131	8.05		9.57	
		900	9032	8.90	10.61	6223	6.13	7.41	4189	7225	7.12	8.55	4286		
		600	11288	7.41	9.01	7777	5.11	6.28			9030	5.93		7.25	
		300	11388	3.74	4.79	10115	3.32	4.27			11388	3.74		4.79	
	OUTPUT 115 rpm	100	11388	1.25	1.77	11388	1.25	1.77		*	11388	1.25		1.77	
20	1725 rpm INPUT	1800	6537	9.34	11.01	4454	6.36	7.67	7-1/2	5240	7.48	8.93	10		
		1200	7976	7.59	9.06	5434	5.17	6.30			6393	6.09		7.34	
		900	9648	6.89	8.30	6573	4.69	5.76	4347	7734	5.52	6.72	5240		
		600	9866	4.70	5.81	7951	3.79	4.73			9355	4.45		5.52	
		300	9866	2.35	3.08	9618	2.29	3.01			9903	2.36		3.09	
	OUTPUT 86.3 rpm	100	9866	0.78	1.15	9866	0.79	1.16		*	9903	0.79		1.16	
25	1725 rpm INPUT	1800	6549	7.48	9.08	4459	5.09	6.35	5	5292	6.05	7.43	7-1/2		
		1200	8096	6.17	7.57	5512	4.20	5.28			6542	4.98		6.19	
		900	9646	5.51	6.84	6567	3.75	4.76	3426	7795	4.45	5.59	5292		
		600	10550	4.02	5.12	7825	2.98	3.86			9287	3.54		4.54	
		300	10550	2.01	2.73	9323	1.78	2.44			10550	2.01		2.73	
	OUTPUT 69.0 rpm	100	10550	0.67	1.04	10478	0.67	1.03		*	10550	0.67		1.04	
30	1725 rpm INPUT	1800	6291	5.99	8.00	4209	4.01	5.53	5	5033	4.79	6.50	7-1/2		
		1200	7930	5.03	6.87	5305	3.37	4.72			6344	4.03		5.57	
		900	9345	4.45	6.19	6252	2.98	4.24	3765	7476	3.56	5.01	5033		
		600	11388	3.61	5.20	7810	2.48	3.64			9339	2.96		4.31	
		300	11388	1.81	2.84	10130	1.61	2.55			11388	1.81		2.84	
	OUTPUT 57.5 rpm	100	11388	0.60	1.12	11388	0.61	1.12		*	11388	0.60		1.12	
40 (41)	1725 rpm INPUT	1800	6507	4.53	6.18	4266	2.97	4.23	5	5226	3.64	5.07	5		
		1200	7957	3.70	5.14	5217	2.42	3.50			6391	2.97		4.21	
		900	9602	3.34	4.73	6295	2.19	3.21	4266	7713	2.69	3.86	5147		
		600	9909	2.30	3.40	7597	1.76	2.66			9307	2.16		3.21	
		300	9909	1.15	1.87	9168	1.06	1.75			9909	1.15		1.87	
	OUTPUT 43.1 rpm	100	9909	0.38	0.75	9909	0.38	0.75		*	9909	0.38		0.75	
50	1725 rpm INPUT	1800	6268	3.58	5.11	4052	2.32	3.49	3	5065	2.89	4.23	5		
		1200	7759	2.96	4.30	5016	1.91	2.92			6270	2.39		3.55	
		900	9228	2.64	3.91	5966	1.70	2.64	3382	7457	2.13	3.22	5065		
		600	9439	1.80	2.80	7095	1.35	2.17			8869	1.69		2.64	
		300	9439	0.90	1.56	8438	0.80	1.41			9439	0.90		1.56	
	OUTPUT 34.5 rpm	100	9439	0.30	0.63	9439	0.30	0.63		*	9439	0.30		0.63	
60	1725 rpm INPUT	1800	5928	2.82	4.20	3760	1.79	2.86	3	4790	2.28	3.49	3		
		1200	7413	2.35	3.56	4702	1.49	2.40			5990	1.90		2.95	
		900	8636	2.06	3.17	5478	1.30	2.13	3760	6978	1.66	2.62	3992		
		600	8864	1.41	2.29	6382	1.01	1.72			8130	1.29		2.12	
		300	8864	0.70	1.29	7435	0.59	1.11			8864	0.70		1.29	
	OUTPUT 28.8 rpm	100	8864	0.23	0.53	8232	0.22	0.50		*	8864	0.23		0.53	

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance: 5.167" Maximum NEMA motor frame size: 56C thru 256TC flange incl.
Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
9

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
562	2713	2713	2670	2066	2059	4050	3372	2102	2504	5050	4848	3636	1725 rpm INPUT	
562	2713	2713	2670	2195	2187	4050	3372	2241	2670	5050	4848	3636	7-1/2 (7-1/4)	
562	2713	2713	2670	2281	2272	4050	3372	2336	2782	5050	4848	3636		
562	2713	2713	2670	2382	2371	4050	3372	2452	2921	5050	4848	3636		
562	2713	2713	2670	3016	3002	4050	3372	3100	3701	5050	4848	3636		
562	2713	2713	2670	4976	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	2336	2329	4050	3372	2383	2848	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	2491	2482	4050	3372	2551	3050	5050	4848	3636	10 (10-1/4)	
562	2713	2713	2670	2607	2598	4050	3372	2679	3204	5050	4848	3636		
562	2713	2713	2670	2920	2908	4050	3372	3002	3594	5050	4848	3636		
562	2713	2713	2670	3970	3920	4050	3372	4056	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	2929	2923	4050	3372	2953	3466	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	3194	3185	4050	3372	3223	3775	5050	4848	3636	15 (14-1/2)	
562	2713	2713	2670	3382	3372	4050	3372	3417	3994	5050	4848	3636		
562	2713	2713	2670	3652	3640	4050	3372	3697	4310	5050	4848	3636		
562	2713	2713	2670	4813	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	3288	3281	4050	3372	3315	3907	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	3629	3621	4050	3372	3663	4312	5050	4848	3636	20	
562	2713	2713	2670	3823	3814	4050	3372	3864	4541	5050	4848	3636		
562	2713	2713	2670	4440	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	3631	3625	4050	3372	3656	4312	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	4010	3920	4050	3372	4041	4760	5050	4848	3636	25	
562	2713	2713	2670	4270	3920	4050	3372	4307	4848	5050	4848	3636		
562	2713	2713	2670	4843	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	3994	3920	4050	3372	4012	4704	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	4413	3920	4050	3372	4436	4848	5050	4848	3636	30	
562	2713	2713	2670	4730	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5239	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	4464	3920	4050	3372	4464	4848	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	4975	3920	4050	3372	4464	4848	5050	4848	3636	40 (41)	
562	2713	2713	2670	5321	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	4827	3920	4050	3372	4464	4848	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	5379	3920	4050	3372	4464	4848	5050	4848	3636	50	
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5181	3920	4050	3372	4464	4848	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636	60	
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636		1725 rpm INPUT
562	2713	2713	2670	5689	3920	4050	3372	4464	4848	5050	4848	3636	OUTPUT 28.8 rpm	

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 10.438" from centerline.

5



SINGLE REDUCTION SERIES REDUCER NO. 10

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
7-1/2	1725 rpm INPUT	1800	7402	28.19	30.49	5276	20.09	21.92	20	6462	24.61	26.70	25
		1200	9331	23.69	25.77	6650	16.88	18.50		8145	20.68	22.56	
	OUTPUT 230 rpm	900	10997	20.94	22.90	7837	14.92	16.44	4798	9599	18.28	20.04	6038
		600	13768	17.48	19.30	9812	12.46	13.84		12018	15.26	16.89	
		300	18202	11.55	13.06	12972	8.23	9.37		15888	10.08	11.43	
		100	18371	3.89	4.65	15625	3.31	3.98		18371	3.89	4.65	
10 (10-1/4)	1725 rpm INPUT	1800	7881	21.96	23.94	5689	15.85	17.47	15	6567	18.30	20.06	20
		1200	9934	18.45	20.23	7171	13.32	14.74		9278	15.38	16.94	
	OUTPUT 172.5 rpm	900	11590	16.15	17.80	8367	11.66	12.96	4852	9658	13.46	14.90	6544
		600	14326	13.31	14.81	10342	9.61	10.78		11939	11.09	12.39	
		300	17709	8.22	9.39	12784	5.94	6.84		14757	6.85	7.86	
		100	18794	2.91	3.53	14724	2.28	2.79		16997	2.63	3.21	
15 (15-1/2)	1725 rpm INPUT	1800	8427	15.53	18.16	5869	10.81	12.85	10	6824	12.57	14.83	15
		1200	10623	13.05	15.46	7397	9.09	10.91		8602	10.57	12.61	
	OUTPUT 115 rpm	900	12519	11.53	13.82	8718	8.03	9.74	4497	10137	9.34	11.26	6824*
		600	15655	9.62	11.75	10901	6.70	8.27		12676	7.79	9.57	
		300	21263	6.53	8.34	14806	4.55	5.87		17217	5.29	6.80	
		100	24155	2.47	3.49	18159	1.86	2.65		21115	2.16	3.07	
20 (20-1/2)	1725 rpm INPUT	1800	8645	12.04	13.94	6156	8.58	10.12	10	7242	10.09	11.79	10
		1200	10664	9.90	11.57	7593	7.05	8.38		8933	8.30	9.77	
	OUTPUT 86.3 rpm	900	12743	8.88	10.45	9073	6.32	7.55	6078	10675	7.44	8.82	6078
		600	15227	7.07	8.47	10842	5.04	6.12		12756	5.92	7.14	
		300	17587	4.08	5.11	12956	3.01	3.82		15242	3.54	4.56	
		100	17587	1.36	1.88	14589	1.13	1.58		17164	1.33	1.84	
25	1725 rpm INPUT	1800	8655	9.89	12.49	5895	6.74	8.72	7-1/2	7008	8.01	10.24	10
		1200	10910	8.31	10.69	7431	5.66	7.43		8834	6.73	8.74	
	OUTPUT 69.0 rpm	900	12857	7.34	9.60	8758	5.00	6.66	5004	10411	5.95	7.85	6831
		600	16082	6.12	8.23	10955	4.17	5.70		13022	4.96	6.72	
		300	21790	4.15	5.93	14843	2.83	4.11		17644	3.36	4.84	
		100	24155	1.53	2.51	18174	1.15	1.92		21604	1.37	2.26	
30	1725 rpm INPUT	1800	8832	8.41	10.38	6178	5.88	7.46	7-1/2	7399	7.04	8.80	10
		1200	11133	7.07	8.83	7788	4.94	6.32		9326	5.92	7.47	
	OUTPUT 57.5 rpm	900	13031	6.20	7.84	9115	4.34	5.61	6178*	10916	5.20	6.64	7399*
		600	15851	5.03	6.51	11088	3.52	4.64		13279	4.21	5.50	
		300	19212	3.05	4.18	13487	2.14	3.00		16152	2.56	3.55	
		100	19212	1.02	1.59	15369	0.81	1.30		18405	0.97	1.53	
40	1725 rpm INPUT	1800	8748	6.25	8.20	5991	4.28	5.83	5	7328	5.23	6.98	7-1/2
		1200	11027	5.25	7.00	7552	3.60	4.94		9237	4.40	5.94	
	OUTPUT 43.1 rpm	900	12907	4.61	6.24	8839	3.16	4.39	5035	10812	3.86	5.29	7328*
		600	15706	3.74	5.20	10756	2.56	3.66		13157	3.13	4.41	
		300	17000	2.02	3.05	13089	1.56	2.40		16011	1.91	2.88	
		100	17000	0.67	1.19	14920	0.59	1.06		17000	0.67	1.19	
50	1725 rpm INPUT	1800	8424	4.81	6.67	5655	3.23	4.69	5	7057	4.03	5.70	5
		1200	10302	3.92	5.54	6915	2.63	3.88		8630	3.29	4.72	
	OUTPUT 34.5 rpm	900	12432	3.55	5.09	8344	2.38	3.54	5655*	10414	2.97	4.33	6081
		600	15000	2.86	4.23	10069	1.92	2.94		12567	2.39	3.59	
		300	15000	1.43	2.33	12151	1.16	1.93		15000	1.43	2.33	
		100	15000	0.48	0.94	13773	0.44	0.87		15000	0.48	0.94	
60	1725 rpm INPUT	1800	7966	3.79	5.51	5239	2.49	3.85	3	6673	3.18	4.72	5
		1200	9861	3.13	4.63	6485	2.06	3.21		8261	2.62	3.95	
	OUTPUT 28.8 rpm	900	11728	2.79	4.19	7712	1.84	2.89	3847	9824	2.34	3.58	6673*
		600	13948	2.21	3.44	9172	1.46	2.37		11685	1.85	2.93	
		300	14200	1.13	1.95	10909	0.87	1.55		13897	1.10	1.91	
		100	14200	0.38	0.80	12246	0.32	0.70		14200	0.38	0.80	

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 6.000"

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
10

*****SHAFT OVERHUNG AND THRUST LOADS** (Includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL ±1		
788	5607	5607	5438	2954	2945	5222	5767	3023	2976	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	3153	3142	5222	5767	3241	3181	6100	6100	5436	7-1/2	
803	5607	5607	5438	3268	3254	5222	5767	3372	3302	6100	6100	5436		
803	5607	5607	5438	3435	3418	5222	5767	3566	3477	6100	6100	5436		
803	5607	5607	5438	3918	3895	5222	5767	4099	3982	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 230 rpm
788	5607	5607	5438	3366	3357	5222	5767	3451	3406	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	3603	3592	5222	5767	3712	3655	6100	6100	5436	10 (10-1/4)	
803	5607	5607	5438	3791	3778	5222	5767	3918	3852	6100	6100	5436		
803	5607	5607	5438	4040	3920	5222	5767	4199	4117	6100	6100	5436		
803	5607	5607	5438	4912	3920	5222	5767	5116	5013	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 172.5 rpm
788	5607	5607	5438	4311	3920	5222	5767	4344	4293	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	4719	3920	5222	5767	4760	4696	6100	6100	5436	15 (15-1/2)	
803	5607	5607	5438	5014	3920	5222	5767	5064	4988	6100	6100	5436		
803	5607	5607	5438	5454	3920	5222	5767	5517	5422	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 115 rpm
788	5607	5607	5438	4728	3920	5222	5767	4777	4731	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	5219	3920	5222	5767	5279	5223	6100	6100	5436	20 (20-1/2)	
803	5607	5607	5438	5530	3920	5222	5767	5603	5536	6100	6100	5436		
803	5607	5607	5438	6121	3920	5222	5767	6210	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 86.3 rpm
788	5607	5607	5438	5246	3920	5222	5767	5274	5222	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	5790	3920	5222	5767	5825	5759	6100	6100	5436	25	
803	5607	5607	5438	6195	3920	5222	5767	6237	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 69.0 rpm
803	5607	5607	5438	5594	3920	5222	5767	5626	5579	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	6180	3920	5222	5767	6222	5952	6100	6100	5436	30	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 57.5 rpm
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	40	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 43.1 rpm
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	50	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 34.5 rpm
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	1725 rpm INPUT	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436	60	
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		
803	5607	5607	5438	6250	3920	5222	5767	6250	5952	6100	6100	5436		OUTPUT 28.8 rpm

***Overhung load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 1.438" from centerline

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SINGLE REDUCTION SERIES REDUCER NO. 11

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED – THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTM HP 1800 RPM O/P TQUT	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
7-1/2 (7-1/4)	1725 rpm INPUT	1800	8572	33.77	36.49	6201	24.43	26.62	25	7107	28.00	30.39	30
	1200	10806	28.38	30.84	7816	20.53	22.47	8958		23.53	25.67		
	900	12735	25.08	27.40	9211	18.14	19.96	10557		20.79	22.80		
	600	15872	20.84	22.99	11481	15.08	16.74	13158	17.28	19.13	7010		
	300	21936	14.40	16.24	15867	10.42	11.82	18186	11.94	13.51			
	100	27218	9.96	10.78	19687	7.31	8.16	22564	8.94	9.89			
10	1725 rpm INPUT	1800	9403	26.85	29.42	6833	19.52	21.60	20	7877	22.50	24.78	25
	1200	11852	22.57	24.88	8613	16.40	18.24	9928		18.90	20.94		
	900	13968	19.95	22.12	10151	14.50	16.21	11701		16.71	18.61		
	600	17481	16.47	18.66	12704	12.09	13.67	14644	13.94	15.70	7877 *		
	300	20200	9.62	11.10	16695	7.95	9.22	19245	9.16	10.59			
	100	20200	3.21	3.96	18878	3.00	3.71	20200	3.21	3.96			
15 (14-1/2)	1725 rpm INPUT	1800	10000	19.70	22.56	7130	14.04	16.32	15	8291	16.33	18.84	20
	1200	12606	16.55	19.15	8987	11.80	13.83	10450		13.72	15.98		
	900	14856	14.63	17.09	10592	10.43	12.33	12316		12.13	14.25		
	600	18572	12.19	14.48	13241	8.69	10.44	15397	10.11	12.07	8291 *		
	300	25267	8.29	10.23	18014	5.91	7.37	20946	6.88	8.53			
	100	28409	3.11	4.19	22117	2.42	3.30	25718	2.81	3.81			
20	1725 rpm INPUT	1800	10373	14.81	17.44	7386	10.55	12.65	15	8690	12.41	14.74	15
	1200	13076	12.45	14.82	9310	8.86	10.73	10953		10.43	12.51		
	900	15410	11.00	13.24	10973	7.83	9.57	12909		9.22	11.17		
	600	19260	9.17	11.24	13714	6.53	8.12	16134	7.68	9.48	8690 *		
	300	20200	4.81	6.22	17835	4.25	5.52	20200	4.81	6.22			
	100	20200	1.60	2.32	20200	1.60	2.32	20200	1.60	2.32			
25 (25-1/2)	1725 rpm INPUT	1800	10488	11.75	14.11	7419	8.31	10.22	10	8832	9.89	12.01	15
	1200	13221	9.87	11.99	9352	6.98	8.66	11133		8.31	10.19		
	900	15389	8.62	10.59	10886	6.10	7.63	12959		7.26	8.99		
	600	17464	6.52	8.20	13547	5.06	6.45	16128	6.02	7.60	8832 *		
	300	17464	3.26	4.37	16860	3.15	4.22	17464	3.26	4.37			
	100	17464	1.09	1.66	17464	1.09	1.66	17464	1.09	1.66			
30	1725 rpm INPUT	1800	10482	9.98	12.61	7332	6.98	9.06	10	8780	8.36	10.69	10
	1200	13212	8.39	10.76	9242	5.86	7.70	11068		7.02	9.11		
	900	15571	7.41	9.65	10892	5.18	6.89	13044		6.21	8.16		
	600	19454	6.17	8.24	13608	4.32	5.88	16296	5.17	6.97	8164		
	300	25250	4.01	5.68	17662	2.80	4.06	21152	3.36	4.80			
	100	25384	1.34	2.20	21015	1.11	1.85	25168	1.33	2.18			
40	1725 rpm INPUT	1800	10370	7.41	10.00	7102	5.07	7.10	7-1/2	8687	6.20	8.51	10
	1200	13072	6.22	8.57	8952	4.25	6.05	10950		5.21	7.27		
	900	15406	5.50	7.71	10550	3.77	5.43	12905		4.61	6.54		
	600	19245	4.58	6.62	13179	3.14	4.66	16121	3.84	5.61	8687 *		
	300	20200	2.40	3.80	17094	2.03	3.25	20200	2.40	3.80			
	100	20200	0.80	1.51	20200	0.80	1.51	20200	0.80	1.51			
50 (51)	1725 rpm INPUT	1800	10080	5.65	7.93	6734	3.77	5.56	5	8417	4.71	6.75	7-1/2
	1200	12706	4.74	6.78	8488	3.17	4.73	10610		3.96	5.76		
	900	14801	4.14	6.03	9888	2.76	4.19	12360		3.46	5.12		
	600	17464	3.26	4.92	12280	2.29	3.58	15350	2.87	4.37	8417 *		
	300	17464	1.63	2.72	15251	1.42	2.41	17464	1.63	2.72			
	100	17464	0.54	1.11	17464	0.54	1.11	17464	0.54	1.11			
60	1725 rpm INPUT	1800	9397	4.47	6.54	6278	2.99	4.63	5	7998	3.81	5.68	5
	1200	11846	3.76	5.58	7914	2.51	3.93	10081		3.20	4.84		
	900	13865	3.30	4.99	9263	2.20	3.50	11800		2.81	4.32		
	600	14799	3.13	4.78	11264	1.79	2.93	14350	2.28	3.62	6872		
	300	16389	1.30	2.28	13698	1.09	1.95	16388	1.30	2.28			
	100	16389	0.43	0.94	15606	0.41	0.90	16388	0.43	0.94			

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 6.500"

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
11

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL ††		
792	7232	7232	7124	2889	2874								1725 rpm INPUT	
805	7232	7232	7124	3066	3045								7-1/2 (7-1/4)	
805	7232	7232	7124	3183	3160									
805	7232	7232	7124	3330	3301									
805	7232	7232	7124	3649	3608									
805	7232	7232	7124	5462	3960									
805	7232	7232	7124	5462	3960							OUTPUT 230 rpm		
792	7232	7232	7124	3329	3313								1725 rpm INPUT	
805	7232	7232	7124	3574	3554								10	
805	7232	7232	7124	3726	3702									
805	7232	7232	7124	3933	3902									
805	7232	7232	7124	5002	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 172.5 rpm		
792	7232	7232	7124	4094	3960								1725 rpm INPUT	
805	7232	7232	7124	4458	3960								15 (14-1/2)	
805	7232	7232	7124	4724	3960									
805	7232	7232	7124	5097	3960									
805	7232	7232	7124	5933	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 115 rpm		
805	7232	7232	7124	4678	3960								1725 rpm INPUT	
805	7232	7232	7124	5124	3960								20	
805	7232	7232	7124	5448	3960									
805	7232	7232	7124	5933	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 86.3 rpm		
805	7232	7232	7124	5135	3960								1725 rpm INPUT	
805	7232	7232	7124	5642	3960								25 (25-1/2)	
805	7232	7232	7124	6036	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 69 rpm		
805	7232	7232	7124	5547	3960								1725 rpm INPUT	
805	7232	7232	7124	6122	3960								30	
805	7232	7232	7124	6551	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 57.5 rpm		
805	7232	7232	7124	6214	3960								1725 rpm INPUT	
805	7232	7232	7124	6580	3960								40	
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 43.1 rpm		
805	7232	7232	7124	6580	3960								1725 rpm INPUT	
805	7232	7232	7124	6580	3960								50 (51)	
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 34.5 rpm		
805	7232	7232	7124	6580	3960								1725 rpm INPUT	
805	7232	7232	7124	6580	3960								60	
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960									
805	7232	7232	7124	6580	3960							OUTPUT 28.8 rpm		

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

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SINGLE REDUCTION SERIES REDUCER NO. 12

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
7-1/2 (7-3/4)	1725 rpm INPUT	1800	10233	37.71	40.76	7508	27.67	30.16	30	8617	31.76	34.47	40
		1200	12899	31.69	34.45	9464	23.25	25.48		10862	26.69	29.13	
		900	15202	28.01	30.61	11153	20.55	22.62		12801	23.59	25.87	
		600	18947	23.27	25.67	13901	17.08	18.96	15955	19.60	21.69	8617	
		300	26186	16.08	18.12	19212	11.80	13.39	22051	13.54	15.31		
	OUTPUT 230 rpm	100	28584	5.85	6.96	23838	4.88	5.83	7463	27360	5.60		6.67
10 (10-1/3)	1725 rpm INPUT	1800	11052	30.55	33.66	8062	22.28	24.81	25	9307	25.72	28.50	30
		1200	13931	25.67	28.50	10162	18.73	20.99		11732	21.62	24.12	
		900	16418	22.69	25.35	11977	16.55	18.66		13826	19.11	21.44	
		600	20503	18.89	21.35	14956	13.78	15.70	17265	15.91	18.05	9307	
		300	28079	12.94	15.01	20483	9.44	11.04	23646	10.89	12.69		
	OUTPUT 172.5 rpm	100	28584	4.39	5.45	25261	3.88	4.84	8062	28584	4.39		5.45
15 (14-2/3)	1725 rpm INPUT	1800	11695	22.77	25.67	8606	16.76	19.15	20	10007	19.49	22.11	25
		1200	14742	19.14	21.76	10848	14.08	16.21		12614	16.37	18.73	
		900	17374	16.92	19.37	12784	12.45	14.42		14865	14.47	16.67	
		600	21729	14.10	16.37	15989	10.38	12.18	18592	12.07	14.08	10007	
		300	23350	7.58	9.15	20885	6.78	8.22	23350	7.58	9.15		
	OUTPUT 115 rpm	100	23350	2.53	3.32	23350	2.53	3.32	8606	23350	2.53		3.32
20 (20-1/2)	1725 rpm INPUT	1800	12091	16.84	20.04	8654	12.06	14.62	15	10181	14.19	17.03	15
		1200	15240	14.16	17.07	10909	10.13	12.43		12834	11.92	14.49	
		900	17961	12.51	15.26	12856	8.96	11.10		15125	10.54	12.95	
		600	22461	10.43	12.97	16077	7.47	9.43	18915	8.78	11.00	8889	
		300	26521	6.16	8.06	21821	5.07	6.69	25672	5.96	7.81		
	OUTPUT 86.3 rpm	100	26521	2.05	3.02	26521	2.05	3.02	8654	26521	2.05		3.02
25	1725 rpm INPUT	1800	11693	13.36	15.76	8566	9.79	11.81	10	10167	11.62	13.83	15
		1200	14364	10.94	13.05	10523	8.02	9.76		12491	9.51	11.44	
		900	17248	9.85	11.83	12636	7.22	8.83		14998	8.57	10.37	
		600	20710	7.89	9.63	15173	5.78	7.19	18009	6.86	8.44	10167	
		300	23350	4.45	5.70	18218	3.47	4.52	21624	4.12	5.31		
	OUTPUT 69.0 rpm	100	23350	1.48	2.12	20582	1.31	1.89	7133	23350	1.48		2.12
30	1725 rpm INPUT	1800	12148	11.57	14.75	8560	8.15	10.69	10	10251	9.76	12.60	15
		1200	15312	9.72	12.63	10790	6.85	9.12		12922	8.20	10.77	
		900	18046	8.59	11.33	12716	6.05	8.16		15229	7.25	9.65	
		600	22572	7.16	8.70	15905	5.05	6.98	19048	6.05	8.26	10251	
		300	28584	4.54	6.54	21551	3.42	5.02	25809	4.10	5.94		
	OUTPUT 57.5 rpm	100	28584	1.51	2.53	26388	1.40	2.35	7953	28584	1.51		2.53
40	1725 rpm INPUT	1800	12200	8.71	11.59	8430	6.02	8.31	7-1/2	10328	7.37	9.96	10
		1200	15378	7.32	9.92	10626	5.06	7.09		13018	6.20	8.51	
		900	17614	6.29	8.67	12171	4.35	6.18		14911	5.32	7.44	
		600	22572	5.37	7.61	15598	3.71	5.41	19109	4.55	6.52	10328	
		300	28584	3.40	5.17	19989	2.38	3.72	24489	2.91	4.48		
	OUTPUT 43.1 rpm	100	28584	1.13	2.03	23584	0.94	1.71	7500	28584	1.13		2.03
50 (51)	1725 rpm INPUT	1800	11558	6.47	9.55	7774	4.35	6.74	7-1/2	9733	5.45	8.19	7-1/2
		1200	14569	5.44	8.23	9800	3.66	5.78		12269	4.58	7.05	
		900	17170	4.81	7.43	11549	3.23	5.20		14459	4.05	6.36	
		600	20739	3.87	6.23	14447	2.70	4.49	18087	3.38	5.50	8796	
		300	20739	1.94	3.48	19558	1.83	3.30	20739	1.94	3.48		
	OUTPUT 34.5 rpm	100	20739	0.65	1.43	20739	0.65	1.43	7774	20739	0.65		1.43
60	1725 rpm INPUT	1800	10970	5.22	7.50	7325	3.49	5.33	5	9346	4.45	6.54	7-1/2
		1200	13415	4.26	6.24	8958	2.84	4.42		11429	3.63	5.43	
		900	15754	3.75	5.58	10810	2.57	4.02		13792	3.28	4.96	
		600	15754	2.50	3.92	13044	2.07	3.33	15754	2.50	3.92	9346	
		300	15754	1.25	2.19	15741	1.25	2.19	15754	1.25	2.19		
	OUTPUT 28.8 rpm	100	15754	0.42	0.90	15754	0.42	0.90	6760	15754	0.42		0.90

**Numbers shown in () are exact ratios.

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 7.000"

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO
12

*****SHAFT OVERHUNG AND THRUST LOADS (includes Fan Cooled and Motorized where applicable)**

ALL	CB-CT	CV (VERTICAL SHAFT)					L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL ††		
1127	5600	5600	5490	2653	2637	5600	5600	3687	2654	7000	7000	9900	1725 rpm INPUT	
1187	5600	5600	5490	2781	2761	5600	5600	3948	2784	7000	7000	9900	7-1/2 (7-3/4)	
1126	5600	5600	5490	2860	2836	5600	5600	4130	2863	7000	7000	9900		
1227	5600	5600	5490	2942	2912	5600	5600	4375	2946	7000	7000	9900		
1267	5600	5600	5490	3132	3090	5600	5600	4895	3141	7000	7000	9900		
1267	5600	5600	5490	5401	5354	5600	5600	6636	5421	7000	7000	9900		
1267	5600	5600	5490	5401	5354	5600	5600	6636	5421	7000	7000	9900		
1225	5600	5600	5490	3137	3121	5600	5600	4542	3126	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	3345	3325	5600	5600	4601	3332	7000	7000	9900	10 (10-1/3)	
1225	5600	5600	5490	3486	3462	5600	5600	4852	3470	7000	7000	9900		
1225	5600	5600	5490	3665	3636	5600	5600	5204	3647	7000	7000	9900		
1267	5600	5600	5490	4073	4033	5600	5600	5963	4052	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	3726	3711	5600	5600	4967	3714	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	4022	4003	5600	5600	5419	4007	7000	7000	9900	15 (14-2/3)	
1225	5600	5600	5490	4222	4199	5600	5600	5742	4205	7000	7000	9900		
1267	5600	5600	5490	4508	4479	5600	5600	6220	4487	7000	7000	9900		
1267	5600	5699	5490	5899	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	4401	4385	5600	5600	5761	4375	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	4805	4785	5600	5600	6335	4772	7000	7000	9900	20 (20-1/2)	
1225	5600	5600	5490	5095	5071	5600	5600	6636	5057	7000	7000	9900		
1267	5600	5600	5490	5514	5484	5600	5600	6636	5467	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	4707	4692	5600	5600	6170	4695	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	5183	5165	5600	5600	6636	5169	7000	7000	9900	25	
1225	5600	5600	5490	5469	5447	5600	5600	6636	5452	7000	7000	9900		
1267	5600	5600	5490	6031	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	5167	5500	5600	5600	6636	5136	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	5683	5500	5600	5600	6636	5500	7000	7000	9900	30	
1225	5600	5600	5490	6063	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6628	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	5822	5500	5600	5600	6636	5500	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	6434	5500	5600	5600	6636	5500	7000	7000	9900	40	
1225	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	6417	5500	5600	5600	6636	5500	7000	7000	9900	1725 rpm INPUT	
1225	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900	50 (51)	
1235	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1225	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900	1725 rpm INPUT	
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900	60	
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		
1267	5600	5600	5490	6636	5500	5600	5600	6636	5500	7000	7000	9900		

***Overhung load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 12.438" from centerline.

5



SINGLE REDUCTION SERIES REDUCER NO. 13

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★						
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP				
10 (10-1/4)	1725 rpm INPUT	1800	12581	35.06	38.19	9581	26.70	29.36	30	11060	30.82	33.71	30		
		1200	15858	29.46	32.26	12077	22.43	24.78			13941	25.90		28.47	
		900	18049	25.15	27.71	13745	19.15	21.28	9581*	15867	22.11	24.45	9794		
		600	23330	21.67	24.07	17767	16.50	18.47			20510	19.05		21.23	
	OUTPUT 172.5 rpm	300	30156	14.00	15.92	22965	10.67	12.22			26511	12.31		14.04	
	100	35784	5.54	6.66	27251	4.22	5.13		31458	4.87	5.88				
15 (15-1/3)	1725 rpm INPUT	1800	13731	25.58	28.72	10381	19.34	22.00	20	12071	22.49	25.39	25		
		1200	17308	21.49	24.31	13086	16.25	18.60			15216	18.90		21.48	
		900	19858	18.49	21.08	15014	13.98	16.13	9381	17458	16.26	18.63	11873		
		600	25386	15.76	18.17	19193	11.92	13.88			22317	13.86		16.05	
	OUTPUT 115 rpm	300	32452	10.08	11.98	24535	7.62	9.16			28530	8.86		10.58	
	100	33610	3.48	4.48	28900	2.99	3.89		33605	3.48	4.48				
20	1725 rpm INPUT	1800	13702	19.57	22.40	10318	14.74	17.16	15	12139	17.34	19.98	20		
		1200	17272	16.44	18.96	13006	12.38	14.50			15302	14.57		16.90	
		900	20202	14.42	16.75	15213	10.86	12.80	9309	17897	12.78	14.93	12134		
		600	24716	11.76	13.85	18611	8.86	10.58			21895	10.42		12.34	
	OUTPUT 86.3 rpm	300	30234	7.20	8.78	22768	5.42	6.72			26786	6.38		7.83	
	100	34583	2.74	3.65	26043	2.07	2.81		30639	2.43	3.26				
25	1725 rpm INPUT	1800	14408	16.46	19.71	10598	12.11	14.81	15	12598	14.39	17.40	15		
		1200	18162	13.83	16.75	13359	10.17	12.56			15879	12.09		14.76	
		900	21404	12.23	14.97	15743	8.99	11.21	10598*	18714	10.69	13.18	10743		
		600	26752	10.19	12.70	19676	7.49	9.50			23389	8.91		11.18	
	OUTPUT 69 rpm	300	31750	6.05	7.92	25589	4.87	6.46			30418	5.79		7.61	
	100	31750	2.02	2.98	30488	1.94	2.87		31750	2.02	2.98				
30	1725 rpm INPUT	1800	14498	13.80	17.26	10527	10.02	12.86	10	12607	12.00	15.16	15		
		1200	18275	11.60	14.72	13269	8.42	10.94			15891	10.09		12.92	
		900	21538	10.25	13.19	15638	7.44	9.79	7949	18728	8.91	11.57	12454		
		600	26969	8.56	11.27	19582	6.21	8.35			23451	7.44		9.88	
	OUTPUT 57.5 rpm	300	35787	5.68	7.90	25985	4.12	5.85			31119	4.94		6.92	
	100	37110	1.96	3.13	31378	1.66	2.68		37110	1.96	3.13				
40	1725 rpm INPUT	1800	13874	9.91	12.64	10011	7.15	9.44	10	12265	8.76	11.31	10		
		1200	17489	8.33	10.74	12619	6.01	8.00			15460	7.36		9.60	
		900	20471	7.31	9.54	14770	5.27	7.10	10011*	18096	6.46	8.52	10679		
		600	24900	5.93	7.91	17967	4.28	5.88			22011	5.24		7.06	
	OUTPUT 43.1 rpm	300	30289	3.60	5.10	21855	2.60	3.80			26775	3.19		4.56	
	100	33334	1.32	2.15	24904	0.99	1.67		30510	1.21	1.99				
50	1725 rpm INPUT	1800	13790	7.88	11.00	9661	5.52	8.06	7-1/2	12057	6.89	9.77	10		
		1200	17383	6.62	9.42	12177	4.64	6.87			15198	5.79		8.35	
		900	20486	5.85	8.47	14351	4.10	6.16	8870	17911	5.12	7.50	12057*		
		600	25591	4.87	7.27	17928	3.41	5.28			22375	4.26		6.43	
	OUTPUT 34.5 rpm	300	31750	3.02	4.87	23253	2.21	3.68			29021	2.76		4.49	
	100	31750	1.01	1.96	27655	0.88	1.74		31750	1.01	1.96				
60 (59)	1725 rpm INPUT	1800	13215	6.40	9.72	8986	4.36	6.98	7-1/2	11430	5.53	8.56	7-1/2		
		1200	16658	5.38	8.36	11328	3.66	5.98			14407	4.65		7.36	
		900	19632	4.75	7.56	13350	3.23	5.38	8986*	16979	4.11	6.64	9782		
		600	24559	3.96	6.54	16700	2.70	4.64			21240	3.43		5.74	
	OUTPUT 28.8 rpm	300	24961	2.01	3.72	22607	1.82	3.41			24961	2.01		3.72	
	100	24961	0.67	1.55	24961	0.67	1.55		24961	0.67	1.55				

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 7.625".

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO
13

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL	CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †	
1170	6924	6924	6653	3995	3980								1725 rpm INPUT 10 (10-1/4) OUTPUT 172.5 rpm
1220	6924	6924	6653	4250	4231								
1268	6924	6924	6653	4519	4497								
1268	6924	6924	6653	4637	4608								
1268	6924	6924	6653	5426	5389								
1268	6924	6924	6653	6715	6092								
1217	6924	6924	6653	4963	4950								1725 rpm INPUT 15 (15-1/3) OUTPUT 115 rpm
1268	6924	6924	6653	5375	5359								
1268	6924	6924	6653	5739	5720								
1268	6924	6924	6653	6103	6079								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6089	6089								1725 rpm INPUT 20 OUTPUT 86.3 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6289	6092								1725 rpm INPUT 25 OUTPUT 69 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								1725 rpm INPUT 30 OUTPUT 57.5 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								1725 rpm INPUT 40 OUTPUT 43.1 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								1725 rpm INPUT 50 OUTPUT 34.5 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								1725 rpm INPUT 60 (59) OUTPUT 28.8 rpm
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								
1268	6924	6924	6653	6715	6092								

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

5



SINGLE REDUCTION SERIES REDUCER NO. 14

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★						
	INPUT SPEED RPM	OUTPUT TORQUE IN. LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN. LBS	OUTPUT HP	INPUT HP	GR1MR HP 1800 RPM O/P TORQUE	OUTPUT TORQUE IN. LBS	OUTPUT HP	INPUT HP				
10 (9-1/2)	1725 rpm INPUT	1800	14541	43.71	47.51	11105	33.39	36.61	40	12783	38.43	41.93	40		
		1200	18329	36.73	40.16	13998	28.06	30.92			16113	32.29		35.43	
		900	21601	32.47	35.69	16498	24.80	27.47			18990	28.54		31.49	
		600	26923	26.98	29.94	20562	20.61	23.04	11105	23669	23.72	26.41	12396		
		300	37210	18.64	21.14	28418	14.24	16.27			32712	16.39		18.65	
	OUTPUT 172.5 rpm	100	42459	7.09	8.50	35260	5.89	7.11			40587	6.78		8.14	
15 (15-1/3)	1725 rpm INPUT	1800	15098	29.75	32.29	11632	22.92	25.03	25	13526	26.65	29.00	30		
		1200	19031	25.00	27.34	14662	19.26	21.18			17049	22.40		24.55	
		900	22010	21.69	23.87	16957	16.71	18.49			19718	19.43		21.43	
		600	27771	18.24	20.29	21396	14.05	15.70	11617	24879	16.34	18.21	13526		
		300	32418	10.65	12.15	26996	8.87	10.15			31391	10.31		11.77	
	OUTPUT 115.0 rpm	100	32418	3.55	4.29	31522	3.45	4.18			32418	3.55		4.29	
20 (19)	1725 rpm INPUT	1800	16275	24.46	28.33	12179	18.31	21.55	20	14307	21.51	25.07	25		
		1200	20514	20.56	24.06	15352	15.38	18.27			18035	18.07		21.28	
		900	24177	18.17	21.46	18093	13.60	16.29			21254	15.97		18.98	
		600	30224	15.14	18.18	22618	11.33	13.79	11674	26571	13.31	16.07	14302		
		300	41118	10.30	12.83	30771	7.71	9.73			36148	9.06		11.34	
	OUTPUT 86.3 rpm	100	42459	3.55	4.87	37780	3.15	4.36			42459	3.55		4.87	
25 (25-1/2)	1725 rpm INPUT	1800	16506	18.49	22.36	12207	13.67	16.89	15	14511	16.25	19.82	20		
		1200	20806	15.54	19.04	15388	11.49	14.36			18291	13.66		16.87	
		900	24521	13.73	17.03	18135	10.16	12.83			21557	12.07		15.08	
		600	30664	11.45	14.49	22678	8.47	10.91	10715	26958	10.06	12.83	14511		
		300	34760	6.49	8.69	30780	5.75	7.75			34760	6.49		8.69	
	OUTPUT 67.7 rpm	100	34760	2.16	3.29	34760	2.16	3.29			34760	2.16		3.29	
30 (32)	1725 rpm INPUT	1800	16411	14.65	17.69	12081	10.79	13.20	15	14555	13.00	15.77	15		
		1200	20686	12.31	15.14	15228	9.06	11.28			18347	10.92		13.49	
		900	24379	10.88	13.58	17946	8.01	10.11			21622	9.65		12.09	
		600	30527	9.09	11.61	22472	6.69	8.63	12081	27075	8.06	10.34	13817		
		300	40508	6.03	8.11	29820	4.44	6.03			35928	5.35		7.22	
	OUTPUT 57.5 rpm	100	47182	2.34	3.53	36009	1.79	2.72			43385	2.15		3.25	
40 (38)	1725 rpm INPUT	1800	16399	12.32	16.16	11839	8.90	12.05	10	14416	10.83	14.37	15		
		1200	20671	10.36	13.82	14924	7.48	10.28			18172	9.10		12.28	
		900	24361	9.15	12.14	17588	6.61	9.21			21416	8.05		11.02	
		600	30471	7.63	10.64	21999	5.51	7.89	10361	26788	6.71	9.44	14416		
		300	41286	5.17	7.67	29808	3.73	5.68			36295	4.55		6.80	
	OUTPUT 43.1 rpm	100	42459	1.77	3.07	36498	1.52	2.68			42459	1.77		3.07	
50 (51)	1725 rpm INPUT	1800	15695	8.79	12.51	11021	6.17	9.19	10	13797	7.73	11.16	10		
		1200	19783	7.39	10.74	13892	5.19	7.86			17392	6.49		9.57	
		900	23315	6.53	9.68	16372	4.58	7.07			20497	5.74		8.62	
		600	29165	5.44	8.35	20479	3.82	6.08	11021	25639	4.79	7.43	12155		
		300	33080	3.09	5.19	27732	2.59	4.43			33080	3.09		5.19	
	OUTPUT 34.5 rpm	100	33080	1.03	2.11	33080	1.03	2.11			33080	1.03		2.11	
60	1725 rpm INPUT	1800	14832	7.06	10.43	10350	4.93	7.69	7-1/2	13184	6.28	9.42	10		
		1200	18696	5.93	8.94	13046	4.14	6.56			16619	5.27		8.07	
		900	22034	5.24	8.06	15375	3.66	5.90			19586	4.66		7.26	
		600	27524	4.37	6.94	19206	3.05	5.07	10036	24466	3.88	6.25	13184		
		300	33260	2.64	4.58	24906	1.98	3.56			31727	2.52		4.40	
	OUTPUT 28.8 rpm	100	33260	0.88	1.88	29617	0.78	1.71			33260	0.88		1.88	

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 8.125".

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
14

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL	CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †	
1532	7438	7438	7353	5123	5111								1725 rpm INPUT
1699	7438	7438	7353	5545	5529								10
1731	7438	7438	7353	5821	5803								(9-1/2)
1731	7438	7438	7353	6229	6206								OUTPUT 172.5 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1578	7438	7438	7353	6274	6274								1725 rpm INPUT
1606	7438	7438	7353	6613	6613								15
1722	7438	7438	7353	6613	6613								(14-1/2)
1731	7438	7438	7353	6613	6613								OUTPUT 115.0 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1579	7438	7438	7353	6613	6613								1725 rpm INPUT
1731	7438	7438	7353	6613	6613								20
1731	7438	7438	7353	6613	6613								(19)
1731	7438	7438	7353	6613	6613								OUTPUT 86.3 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1563	7438	7438	7353	6613	6613								1725 rpm INPUT
1684	7438	7438	7353	6613	6613								25
1731	7438	7438	7353	6613	6613								(25-1/2)
1731	7438	7438	7353	6613	6613								OUTPUT 67.7 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1561	7438	7438	7353	6613	6613								1725 rpm INPUT
1711	7438	7438	7353	6613	6613								30
1731	7438	7438	7353	6613	6613								(32)
1731	7438	7438	7353	6613	6613								OUTPUT 57.5 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1617	7438	7438	7353	6613	6613								1725 rpm INPUT
1731	7438	7438	7353	6613	6613								40
1731	7438	7438	7353	6613	6613								(38)
1731	7438	7438	7353	6613	6613								OUTPUT 43.1 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1586	7438	7438	7353	6613	6613								1725 rpm INPUT
1684	7438	7438	7353	6613	6613								50
1726	7438	7438	7353	6613	6613								(51)
1731	7438	7438	7353	6613	6613								OUTPUT 34.5 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								
1570	7438	7438	7353	6613	6613								1725 rpm INPUT
1684	7438	7438	7353	6613	6613								60
1726	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								OUTPUT 28.8 rpm
1731	7438	7438	7353	6613	6613								
1731	7438	7438	7353	6613	6613								

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

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SINGLE REDUCTION SERIES REDUCER NO. 15

All ratings stated are for A.G.M.A. Class 1 service.

HORSEPOWER AND TORQUE RATINGS

RATIO **	MECHANICAL★				THERMAL★				FAN COOLED — THERMAL★				
	INPUT SPEED RPM	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP	GRTMR HP 1800 RPM D/P TORQUE	OUTPUT TORQUE IN LBS	OUTPUT HP	INPUT HP		
10 (9-3/4)	1725 rpm INPUT	1800	17698	51.84	56.28	13957	40.88	44.75	40	16089	47.13	51.32	50
		1200	22308	43.57	47.59	17593	34.36	37.82		20281	39.60	43.38	
		900	26291	38.51	42.30	20734	30.37	33.61	23901	35.00	38.56		
		600	32737	31.97	35.45	25818	25.21	28.16	29762	29.06	32.31		
		300	45421	22.18	25.10	35821	17.49	19.94	41292	20.16	22.88		
		100	56502	9.20	10.96	44559	7.25	8.73	51366	8.36	10.00		
	OUTPUT 172.5 rpm								12411				15653
15 (15-1/4)	1725 rpm INPUT	1800	18778	35.18	38.39	14766	27.67	30.36	30	17170	32.17	35.17	40
		1200	23670	29.57	32.52	18613	23.25	25.71		21643	27.03	29.79	
		900	27896	26.13	28.94	21936	20.55	22.87	25507	23.89	26.51		
		600	34831	21.75	24.36	27390	17.11	19.24	31848	19.89	22.31		
		300	45071	14.07	16.17	35443	11.07	12.77	41213	12.87	14.81		
		100	53520	5.57	6.78	42089	4.38	5.36	48940	5.09	6.21		
	OUTPUT 115 rpm								14587				17170*
20 (19-1/2)	1725 rpm INPUT	1800	19824	29.04	33.53	15363	22.50	26.37	25	18022	26.40	30.63	30
		1200	24989	24.40	28.47	19366	18.91	22.37		22717	22.18	26.00	
		900	29450	21.57	25.40	22823	16.71	19.96	26773	19.61	23.20		
		600	36811	17.97	21.51	28528	13.93	16.89	33465	16.34	19.64		
		300	50131	12.24	15.17	38851	9.48	11.91	45574	11.12	13.85		
		100	61592	5.01	6.77	47733	3.88	5.33	55993	4.56	6.19		
	OUTPUT 86.3 rpm								14504				17619
25 (26)	1725 rpm INPUT	1800	20092	22.07	26.56	15366	16.88	20.72	20	18266	20.06	24.30	25
		1200	25327	18.55	22.61	19369	14.18	17.62		23025	16.86	20.68	
		900	29848	16.39	20.23	22827	12.54	15.75	27135	14.90	18.50		
		600	37323	13.67	17.20	28544	10.45	13.38	33930	12.42	15.73		
		300	50693	9.28	12.20	38769	7.10	9.49	46085	8.44	11.16		
		100	52354	3.20	4.73	47548	2.90	4.33	52355	3.19	4.73		
	OUTPUT 69 rpm								14780				18266*
30 (30-1/2)	1725 rpm INPUT	1800	19714	18.47	21.63	15050	14.10	16.70	15	18024	16.89	19.84	20
		1200	24850	15.52	18.43	18971	11.85	14.22		22720	14.19	16.90	
		900	28472	13.34	16.04	21736	10.18	12.36	26032	12.19	14.71		
		600	36472	11.39	13.95	27842	8.69	10.74	33344	10.41	12.79		
		300	46715	7.29	9.33	35663	5.57	7.18	42711	6.67	8.55		
		100	55094	2.87	4.04	42063	2.19	3.11	50375	2.62	3.70		
	OUTPUT 57.5 rpm								13440				18024*
40 (39)	1725 rpm INPUT	1800	19930	14.60	19.03	14834	10.86	14.60	15	18119	13.27	17.46	15
		1200	25122	12.27	16.28	18699	9.13	12.47		22839	11.15	14.92	
		900	29607	10.84	14.62	22037	8.07	11.19	26916	9.85	13.40		
		600	37032	9.04	12.53	27563	6.73	9.57	33666	8.22	11.48		
		300	50189	6.13	9.00	37356	4.56	6.88	45627	5.57	8.24		
		100	61465	2.50	4.22	45749	1.86	3.24	55878	2.27	3.87		
	OUTPUT 43.1 rpm								14834*				15284
50 (51)	1725 rpm INPUT	1800	19124	10.71	15.03	13908	7.79	11.40	10	17386	9.74	13.82	15
		1200	24106	9.00	12.90	17532	6.55	9.75		21915	8.18	11.85	
		900	28410	7.96	11.62	20662	5.79	8.78	25827	7.23	10.68		
		600	35537	6.63	10.01	25845	4.82	7.55	32307	6.03	9.19		
		300	48130	4.49	7.27	35004	3.27	5.47	43755	4.08	6.67		
		100	52354	1.63	3.15	42849	1.33	2.65	52354	1.63	3.15		
	OUTPUT 34.5 rpm								11896				17386*
60	1725 rpm INPUT	1800	18218	8.68	11.88	13001	6.19	8.71	10	16562	7.89	10.87	10
		1200	22965	7.29	10.24	16388	5.20	7.49		20877	6.63	9.37	
		900	27064	6.44	9.25	19314	4.60	6.75	24604	5.86	8.45		
		600	33855	5.37	7.98	24160	3.84	5.81	30777	4.89	7.29		
		300	45843	3.64	5.82	32716	2.60	4.22	41676	3.31	5.31		
		100	48070	1.27	2.40	40043	1.06	2.02	48070	1.27	2.40		
	OUTPUT 28.8 rpm								13001*				15132

**Numbers shown in () are exact ratios

★ Mechanical ratings indicated above apply to both non-fan cooled and fan cooled units.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

Center distance 9.000"

Thermal input horsepower must not be exceeded for class 1, 2, or 3 service.

REDUCER NO.
15

*****SHAFT OVERHUNG AND THRUST LOADS** (includes Fan Cooled and Motorized where applicable)

ALL		CB-CT	CV (VERTICAL SHAFT)				L (DROP BEARING)				S (SHAFT MOUNT)			RATIO
INPUT OHL	OUTPUT OHL	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT UP OHL	OUTPUT DOWN OHL	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TO BASE	OUTPUT THRUST FROM BASE	OUTPUT OHL †		
1821	15496	15496	15484	7000	7000								1725 rpm INPUT	
2013	15496	15496	15484	7000	7000								10	
2159	15496	15496	15484	7000	7000								(9-3/4)	
2379	15496	15496	15484	7000	7000								OUTPUT 172.5 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
2089	15496	15496	15484	7000	7000								1725 rpm INPUT	
2328	15496	15496	15484	7000	7000								15	
2397	15496	15496	15484	7000	7000								(15-1/4)	
2397	15496	15496	15484	7000	7000								OUTPUT 115 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
1877	15496	15496	15484	7000	7000								1725 rpm INPUT	
2086	15496	15496	15484	7000	7000								20	
2243	15496	15496	15484	7000	7000								(19-1/2)	
2397	15496	15496	15484	7000	7000								OUTPUT 86.3 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
1906	15496	15496	15484	7000	7000								1725 rpm INPUT	
2124	15496	15496	15484	7000	7000								25	
2288	15496	15496	15484	7000	7000								(26)	
2397	15496	15496	15484	7000	7000								OUTPUT 69 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
2158	15496	15496	15484	7000	7000								1725 rpm INPUT	
2397	15496	15496	15484	7000	7000								30	
2397	15496	15496	15484	7000	7000								(30-1/2)	
2397	15496	15496	15484	7000	7000								OUTPUT 57.5 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
1928	15496	15496	15484	7000	7000								1725 rpm INPUT	
2153	15496	15496	15484	7000	7000								40	
2323	15496	15496	15484	7000	7000								(39)	
2397	15496	15496	15484	7000	7000								OUTPUT 43.1 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
1964	15496	15496	15484	7000	7000								1725 rpm INPUT	
2197	15496	15496	15484	7000	7000								50	
2375	15496	15496	15484	7000	7000								(51)	
2397	15496	15496	15484	7000	7000								OUTPUT 34.5 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									
2369	15496	15496	15484	7000	7000								1725 rpm INPUT	
2397	15496	15496	15484	7000	7000								60	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000								OUTPUT 28.8 rpm	
2397	15496	15496	15484	7000	7000									
2397	15496	15496	15484	7000	7000									

***Overhung load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

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